Project No. 1251-100
Crude Oil Tank Farms Project, Agrood Area 30 (Module-1)

PETROJET Enppi EGPC

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
1	**Mechanical Completion Certificate (MCC)**	
2	**Ready for Startup Certificate (RFSU)**	
3	**System Punch Lists**	
4	**System Limits Marked Up P&ID**	
5	**System Index**	
6	**Piping Pre-Commissioning**	
	6.01) Piping Test Packs	
	6.02) Piping Pre-commissioning Check Lists	
7	**Piping Commissioning**	
	7.01) Service Test, GLT, CLT and N2 Purging Certificates	
	7.02) Piping Commissioning Check Lists	

Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
8	**Mechanical Pre-Commissioning**	
	8.01) System Mechanical Index	
	8.02) Equipment Drawings	
	8.03) Equipment Datasheets	
	8.04) Boxing-up Certificates	

	8.05) Grouting Certificates	
	8.06) Pre-Alignment Certificates	
	8.07) Mechanical Pre-Commissioning Checklists	
9	**Mechanical Commissioning**	
	9.01) Final Alignment Certificates	
	9.02) Motor Solo Run Certificates	
	9.03) Mechanical Run Test (MRT) Certificates	
	9.04) Mechanical Commissioning Checklists	
	9.05) Mechanical Supplier Check Lists & Reports	
10	**Instrumentation Pre-Commissioning**	
	10.01) System Instrument Index	
	10.02) Instrument Data Sheets	
	10.03) Instrument Cable Schedule	
	10.04) System Instrumentation Wiring Diagram	
	10.05) Hook-up Drawing (Mechanical & Pneumatic)	
	10.06) Instruments Cables Schedule	
	10.07) Instruments Cables Laying Certificates	
	10.08) Instruments Cables Termination Certificates	
	10.09) Instruments Cables Testing Certificates	
	10.10) Instruments Calibration Certificates	
	10.11) Instrument Loop Checks Certificates	
	10.12) Instrumentation Pre-Commissioning Check Lists	
	10.13) Instrumentation Supplier Check Lists & Reports	
11	**Instrumentation Commissioning**	
	11.01) Instrumentation Function Test Certificates	
	11.02) Instrumentation Supplier Check Lists & Reports	
Sr.	**Pre-Commissioning and Commissioning Dossier Index**	**Applicable (Yes/No)**
12	**Electrical Pre-Commissioning**	
	12.01) System Electrical Index	
	12.02) Electrical Drawings	
	12.03) Motor Datasheets	
	12.04) Electrical Cables Schedule	
	12.05) Electrical Cables Laying Certificates	
	12.06) Electrical Cables Testing Certificates	
	12.07) Electrical Cables Termination Certificates	
	12.08) FAT Reports & Certificates	
	12.09) SAT Reports & Certificates	
	12.10) Electrical Pre-Commissioning Check Lists	
	12.11) Electrical Supplier Check Lists & Reports	

13	**Electrical Commissioning**	
	13.01) Electrical -Commissioning Check Lists	
	13.02) Electrical Supplier Check Lists & Reports	
14	**Red Marked-up Drawings**	
	14.01) P&ID	
	14.02) Instrumentation Drawings	
	14.03) Electrical Drawings	

Enppi PETROJET

Project: 01251-100
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Petroleum Pipelines Company
شركة أنابيب البترول

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

1-Mechanical Completion Certificate (MCC)

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SYSTEM MECHANICAL COMPLETION CERTIFICATE (MCC)

PROJECT TITLE	:	CRUDE OIL TANK FARM PROJECT (AGROOD AREA)
PROJECT No	:	01251-100
SYSTEM NAME	:	Firefighting Pumps & Fire Water Network
SYSTEM ID	:	030-LP-010

THIS IS TO CERTIFY THAT:

- **THE ABOVE SYSTEM HAS BEEN FABRICATED, ERECTED, INSTALLED AND TESTED TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS, THE APPLICABLE CODES AND STANDARDS.**
- **ALL PRE-COMMISSIONING RELEVANT ACTIVITIES, TESTS, INSPECTIONS AND CHECKS HAVE BEEN CARRIED OUT FOR THIS SYSTEM AND FOUND ACCEPTABLE.**
- **Q/C DOCUMENTATION OF THE ABOVE SYSTEM HAS BEEN AUDITED BY THE CUSTOMER SITE QUALITY CONTROL AND FOUND COMPLETED.**
- **ALL PUNCH LIST ITEMS CATEGORY (A) IN THIS SUBSYSTEM WERE CLEARED.**
- **THIS SYTEM IS MECHANICALLY COMPLETED ON THE DATE 10-06-2021 AND READY FOR COMMISSIONING (RFC) WITH THE FOLLOWING EXCEPTIONS.**

EXCEPTIONS :

* 30-P-015C pump is isolated from fire network, 030-T-11C not filled
* Final torque of 30-P-015 A/B pumps will be done by trial and error as per manufacturer recommendations, ~~at~~ 400 N/M.

cleared.

COMPANY	PETROJET	ENPPI	PMC
NAME		M. Abbas	
TITLE			
SIGNATURE	[signature]	[signature]	[signature]
DATE			

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

2- Ready for Startup Certificate (RFSU)

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READY FOR START UP CERTIFICATE

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT (AGROOD-30)
PROJECT No.	: 1251-100
SYSTEM /AREA /PLANT	: Firefighting Pumps & Fire Water Network
SYSTEM /AREA /PLANT No.	: 030-LP-010

THIS IS TO CERTIFY THAT:

- **THE MENTIONED SYSTEM /AREA /PLANT IS READY FOR START UP WHERE ALL MECHANICAL WORKS, PRECOMMISSIONING AND COMMISSIONING ACTIVITIES HAVE BEEN SUCCESSFULLY COMPLETED.**
- **MECHANICAL COMPLETION CERTIFICATE(S) FOR THE MENTIONED SYSTEM / AREA / PLANT HAVE BEEN SIGNED.**
- **ISSUANCE OF THIS READY FOR START UP CERTIFICATE(S) SHALL NOT RELIEVE CONTRACTOR(S) FROM THEIR OBLIGATIONS TO COMPLETE THE REMAINING SYSTEMS NOR FROM THEIR WARRANTY OBLIGATIONS AND OTHER PROVISIONS OF THE CONTRACT.**
- **THE FOLLOWING EXCEPTIONS AGREED TO BE CLEARED AFTER START UP AND WILL NOT PREVENT START UP ACTIVITIES.**

EXCEPTIONS :

COMPANY	ENPPI	PPC
NAME	Ahmed El Shafie	M. Saleh
TITLE	Commissioning Manager	Site Manager
SIGNATURE	[signature]	[signature]
DATE	13-7-2021	08/09/2021

10000-000-EK8-FRM-0006 (03/15)

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

3- System Punch Lists

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SYSTEM PUNCH LIST

PROJECT TITLE	:	EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)			
PROJECT NUMBER	:	1251-100	DISCIPLINE	:	Mechanical
SYSTEM NAME	:	Firefighting Pumps & Fire Water Network	SYSTEM ID	:	030-LP-010
SUB-SYSTEM NAME	:	Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	:	030-LP-010

No	DESCRIPTION	CAT	ACTION BY	DISP	CLEARANCE APPROVED BY	
1	030-P-16A Fire Water Jockey Pump FINAL ALIGNMENT TO BE DONE	B				M.Saleh ✓
2	030-P-16B Fire Water Jockey Pump FINAL ALIGNMENT TO BE DONE	B				M.Saleh ✓
3	030-P-15A Main Fire Water Pump (Diesel) FINAL ALIGNMENT TO BE DONE	B			N/A	M.Saleh -
4	030-P-15B Main Fire Water Pump (Diesel) FINAL ALIGNMENT TO BE DONE	B			N/A	M.Saleh -
5	030-P-15C Main Fire Water Pump (Diesel) FINAL ALIGNMENT TO BE DONE	B			N/A	M.Saleh -
6	SENSING LINES TO BE INSTALLED FOR ALL THE PUMPS	A			[signature]	[signature]
7	030-P-16A COUPLING TO BE INSTALLED	A				M.Saleh ✓
8	030-P-16B COUPLING TO BE INSTALLED	A				M.Saleh ✓
9	U/G valves hand wheels to be installed	A				[signature]
10	All Fire cabinets to be installed with fire hoses	A				M.Saleh ✓

CAT: CATEGORY (A,B,C) , ACTION BY: (ENPPI, CONST. CONTRACTOR, SUPPLIER...), DISP: DISCIPLINE (PIP, MECH, ELECT, INST...)

COMPANY	PETROJET	ENPPI	PMC
NAME	Karim Ahmed	Abdallah Fathy	Mohamed Mahmoud Abdel Salh
SIGNATURE	K.A	[signature]	M.M.Saleh
DATE	24-5-2021		24/05/2021

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SYSTEM PUNCH LIST

PROJECT TITLE : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)			
PROJECT NUMBER : 1251-100		DISCIPLINE : Mechanical	
SYSTEM NAME : Firefighting Pumps & Fire Water Network		SYSTEM ID : 030-LP-010	
SUB-SYSTEM NAME : Firefighting Pumps & Fire Water Network		SUB-SYSTEM ID : 030-LP-010	

No	DESCRIPTION	CAT	ACTION BY	DISP	CLEARANCE APPROVED BY
1	DIESEL TANK 030-T-11A TO BE FILLED WITH DIESEL	A	PTJ		[signature]
2	DIESEL TANK 030-T-11B TO BE FILLED WITH DIESEL	A	PTJ		[signature]
3	DIESEL TANK 030-T-11C TO BE FILLED WITH DIESEL	A	PTJ		[signature]
4	ALL THE REMAINING PIPING LOOPS TO BE REINSTATED	A	PTJ		[signature]
5	FIRE WATER TANK FLUSHING	A	PTJ		[signature]
6	FIRE WATER TANK HOUSEKEEPING AND BOTTOM CLEANING	A	PTJ		[signature]
7	FIRE WATER TANK BOXING-UP	A	PTJ		[signature]
8	30-P-15C suction cracks to be repaired	A	PTJ		[signature]
9	Foam Bladder Ladder to be installed	B	PTJ		[signature]
10	Fire Area painting to be completed	C	PTJ		[signature]
11	Final torque for all diesel pumps	A	PTJ		[signature]

CAT: CATEGORY (A,B,C) , ACTION BY: (ENPPI, CONST. CONTRACTOR, SUPPLIER…), DISP: DISCIPLINE (PIP, MECH, ELECT, INST…)

COMPANY	PETROJET	ENPPI	PMC
NAME	Karim Haytham	Abdullah Fathy	Mohamed Mahmoud Abdelsalam
SIGNATURE	[signature]	[signature]	[signature]
DATE	24-5-2021		24/05/2021

PETROJET | Enppi | **PUNCH LIST** | EGPC

PROJECT TITLE : CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PROJECT NUMBER : 01251-100	**DISCIPLINE: Loss Prevention**
SYSTEM NAME: Firefighting Pumps & Fire Water Network	**SYSTEM ID:** 030-LP-010
SUB-SYSTEM NAME:	**SUB-SYSTEM ID:**

NO	DESCRIPTION	CAT	ACTION BY	DISP	CLEARANCE APPROVED BY	
1	030 _ lit - 030 device cable to be terminated and tested	A	PTJ	ELE	[signature]	
2	Hook-up Material to be install	B	Enppi/PTJ	ELE	[signature]	

CAT: CATEGORY(A,B,C) ,ACTION BY: (ENPPI,CONST.CONTRACTOR,SUPPLIER.....) , DISP: DESCIPLINE(PIP,MECH,ELECT,INST.......)

COMPANY	PTJ	ENPPI	PMC
NAME		Reza	
SIGN.	[signature]	[signature]	[signature]
DATE			

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

4- System Limits Marked Up P&ID

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

5- System Index

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

6- Piping Pre-Commissioning

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

6.01- Piping Test Packs

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CRUDE OIL TANK FARM PROJECT (AGROOD AREA) | Petroleum Pipelines Company شركة أنابيب البترول

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

6.02- Piping Pre-commissioning Check Lists

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)	
PROJECT NUMBER : 1251-100	**DISCIPLINE** : Loss Prevention
SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SYSTEM ID** : 030-LP-010
SUB-SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID** : 030-LP-010
ITEM TAG No. : **030-FH-009**	**AREA** : 30
REF. DWGs/DOCs : **030-FH-009**	

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose Not fond

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed [signature]	Abdallah Fathy	Mohamed Abdul [illegible]
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-010**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-010**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-Emam	Abdallah Fathy	Mohamed Abdul Sader
SIGNATURE	[signature]	[signature]	M. A. Saleh
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-011**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-011**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilan	Abdallah Fathy	Mohamed Abdel Saalm
SIGNATURE	[signature]	[signature]	M. A. Saalm
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-012**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-012**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-Eleimy	Abdallah Fathy	Mohamed Abdel Saleh
SIGNATURE	[signature]	[signature]	M. A. Saleh
DATE			9/6/2021

10000-Z-000-EK7-TMP-0089 (03/14)

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N.A	
19	Calibration test certificate of testing equipment to be checked.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N.A	
19	Calibration test certificate of testing equipment to be checked.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
19	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N.A	
19	Calibration test certificate of testing equipment to be checked.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	Islam Sherif [signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omer
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
19	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	Islam Sherif [signature]	M. omer
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-025**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-025**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilani	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	: 030-FH-013	AREA	: 30
REF. DWGs/DOCs	: 030-FH-013		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmi…	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-014**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-014**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwiliam	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-015**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-015**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	-
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-Ghilan	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-016**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-016**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	M Elwilam	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-017**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-017**		

No.	**DESCRIPTION**	**RESULT OK/NA/PL**	**PL ITEM No.**
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed El-Cholany	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)	
PROJECT NUMBER : 1251-100	**DISCIPLINE** : Loss Prevention
SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SYSTEM ID** : 030-LP-010
SUB-SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID** : 030-LP-010
ITEM TAG No. : **030-FH-018**	**AREA** : 30
REF. DWGs/DOCs : **030-FH-018**	

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

fire hose rod [illegible]

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-[illegible]	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-019**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-019**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdel Sealer
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-001**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-001**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilawy	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-002**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-002**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilan	Abdallah Fathy	Mohamed Abdul Sadu
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-003**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-003**		

No.	**DESCRIPTION**	**RESULT OK/NA/PL**	**PL ITEM No.**
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	pl
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed Elwilaus	Abdullah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/8/2018

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-004**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-004**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elimlamy	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

10000-Z-000-EK7-TMP-0089 (03/14)

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-005**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-005**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-006**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-006**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	o.k	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not hose.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-Ewilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-007**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-007**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmileguy	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-008**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-008**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-Emilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-001	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-001		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- fire hose Not found
- Cabinet contents missing

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilawy	Abdallah Fathy	Mohamed Abdulsalam
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-002**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-002**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose Not found
- Cabinet contents missing

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilm	Abdallah Fathy	Mohamed Abdel Saleh
SIGNATURE	[signature]	[signature]	M. A. Saleh
DATE			9/06/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)	
PROJECT NUMBER : 1251-100	**DISCIPLINE** : Loss Prevention
SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SYSTEM ID** : 030-LP-010
SUB-SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID** : 030-LP-010
ITEM TAG No. : **030-FH-026**	**AREA** : 30
REF. DWGs/DOCs : **030-FH-026**	

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elrailawy	Abdallah Fathy	Mohamed Abdelsader
SIGNATURE	[signature]	[signature]	M. A. Sader
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)	
PROJECT NUMBER : 1251-100	**DISCIPLINE** : Loss Prevention
SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SYSTEM ID** : 030-LP-010
SUB-SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID** : 030-LP-010
ITEM TAG No. : **030-FH-027**	**AREA** : 30
REF. DWGs/DOCs : **030-FH-027**	

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mahmoud Abdel Salam
SIGNATURE	[signature]	[signature]	M. A. Salam
DATE			9/8/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-028**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-028**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilamy	Abdallah Fathy	Mohamed Abdulsader
SIGNATURE	[signature]	[signature]	M.A. Sader
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-029**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-029**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilany	Abdallah Fathy	Mohamed Abdul Sealeh
SIGNATURE	[signature]	[signature]	M. A. Sealeh
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-030**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-030**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilemy	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-020**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-020**		

No.	**DESCRIPTION**	**RESULT OK/NA/PL**	**PL ITEM No.**
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed Elmilaam	Abdullah Fathy	Mohamed Abdel Sealam
SIGNATURE	[signature]	[signature]	M.A. Sealam
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-021**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-021**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not fond.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmileny	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-022**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-022**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdul Saleh
SIGNATURE	[signature]	[signature]	M.A. Saleh
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-023**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-023**		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilan	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-024**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-024**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

. Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-003**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-003**		

No.	**DESCRIPTION**	**RESULT OK/NA/PL**	**PL ITEM No.**
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- fire hose Not found
- Cabinet Contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed Elmilm	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

10000-Z-000-EK7-TMP-0086 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-004**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-004**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS:

- fire hose Not found
- Cabinet Contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/06/2021

PETROJET	Enppi	PUNCH LIST	EGPC

PROJECT TITLE : CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PROJECT NUMBER : 01251-100

DISCIPLINE: Loss Prevention

SYSTEM NAME: Firefighting Pumps & Fire Water Network

SYSTEM ID: 030-LP-010

SUB-SYSTEM NAME:

SUB-SYSTEM ID:

NO	DESCRIPTION	CAT	ACTION BY	DISP	CLEARANCE APPROVED BY	
1	03a – lit – 030 device cable to be terminated and tested	A	PTJ	EIE	[signature]	
2	Hook-up Material to be install	B	Enppi/PTJ	EIE	[signature]	

CAT: CATEGORY(A,B,C) ,ACTION BY: (ENPPI,CONST.CONTRACTOR,SUPPLIER.....) , DISP: DESCIPLINE(PIP,MECH,ELECT,INST.......)

COMPANY	PTJ	ENPPI	PMC
NAME		Reda	
SIGN.	[signature]	[signature]	[signature]
DATE			

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

4- System Limits Marked Up P&ID

5- System Index

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

6- Piping Pre-Commissioning

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

6.01- Piping Test Packs

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

6.02- Piping Pre-commissioning Check Lists

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-009**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-009**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose Not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-010**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-010**		

No.	**DESCRIPTION**	**RESULT**	**PL**
		OK/NA/PL	**ITEM No.**
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed El-Emlawy	Abdallah Fathy	Mohamed Abdul Sader
SIGNATURE	[signature]	[signature]	M. A. Sadeh
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-011**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-011**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilan	Abdallah Fathy	Mohamed Abdel Saalem
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)	
PROJECT NUMBER : 1251-100	**DISCIPLINE** : Loss Prevention
SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SYSTEM ID** : 030-LP-010
SUB-SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID** : 030-LP-010
ITEM TAG No. : **030-FH-012**	**AREA** : 30
REF. DWGs/DOCs : **030-FH-012**	

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-Eriʼlams	Abdallah Fathy	Mohamed Abdul Saleh
SIGNATURE	[signature]	[signature]	M. A. Saleh
DATE			9/6/2021

10000-Z-000-EK7-TMP-0089 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N.A	
19	Calibration test certificate of testing equipment to be checked.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N.A	
19	Calibration test certificate of testing equipment to be checked.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
19	Calibration test certificate of testing equipment to be checked.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif (stamp)	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
19	Calibration test certificate of testing equipment to be checked.	N.A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omer
DATE			

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Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
19	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	Islam Sherif [signature]	M. omer
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-025**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-025**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilani	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-013**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-013**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed ElariCaus	Abdallah Fathy	Mohamed Abdulsadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-014**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-014**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdelsalah
SIGNATURE	[signature]	[signature]	M. A. Saleh
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-015**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-015**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	-
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-Ghilan	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-016**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-016**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-017**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-017**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-[illegible]	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-018**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-018**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-[illegible]	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-019**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-019**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed [illegible]	Abdallah Fathy	Mohamed Abdel Sealer
SIGNATURE	[signature]	[signature]	M. A. Sealer
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-001**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-001**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok.	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilawy	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-002**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-002**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed Elanlan	Abdallah Fathy	Mohamed Abdul Sadu
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-003**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-003**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elrilawy	Abdullah Fathy	Mohamed Abdel Sadek
SIGNATURE	M Elrila	[signature]	M. A. Sadek
DATE			9/8/2018

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-004**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-004**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found .

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilamy	Abdallah Fathy	Mohamed Abdul sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-005**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-005**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-006**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-006**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	o.k	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose. Not hose.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	M Elwilam	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-007**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-007**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmileny	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-008**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-008**		

No.	**DESCRIPTION**	**RESULT OK/NA/PL**	**PL ITEM No.**
1	Check the hydrant model number as per data sheet.	OK	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	OK	
3	Check hydrant location as per underground plan.	OK	
4	Check hydrant stencilling.	OK	
5	Check pumper connection orientation faced to the road.	OK	
6	Check the hydrant pressure regulating valve conditions.	OK	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	OK	PL
8	Check hydrant painted as per project specification.	OK	
9	Check opening and closing of the regulating valve.	OK	

REMARKS AND OBSERVATIONS :

Fire hose not fond.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed Elmilany	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-001	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-001		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- fire hose Not found
- Cabinet Contents missing

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilawy	Abdallah Fathy	Mohamed Abdul Salam
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-002	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-002		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- fire hose Not found
- cabinet contents missing

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdel Saleh
SIGNATURE	[signature]	[signature]	M. A. Saleh
DATE			9/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-026**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-026**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elnileme	Abdallah Fathy	Mohamed Abdelsatter
SIGNATURE	[signature]	[signature]	M. A. Saleh
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-027**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-027**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed [signature]	Abdallah Fathy	Mohamed Abdel Salam
SIGNATURE	[signature]	[signature]	M. A. Sealla
DATE			9/8/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-028**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-028**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilany	Abdallah Fathy	Mohamed Abdul Sadler
SIGNATURE	[signature]	[signature]	M.A. Sadler
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-029**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-029**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilawy	Abdallah Fathy	Mohamed Abdulseedu
SIGNATURE	M Elwilawy	[signature]	M. A. Seedeh
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-030**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-030**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilany	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-020**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-020**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elsilim	Abdullah Fathy	Mohamed Abdul Salam
SIGNATURE	[signature]	[signature]	M.A. Salam
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-021**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-021**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilany	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-022**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-022**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdul Salh
SIGNATURE	[signature]	[signature]	M. A. Saalan
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-023**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-023**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed [signature]	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	: 030-FH-024	AREA	: 30
REF. DWGs/DOCs	: 030-FH-024		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

. Fire hose not found

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-003	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-003		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose Not found
- Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elhilen	Abdallah Fathy	Mohamed Abdulsadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-004	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-004		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose Not found
- Cabinet Contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/06/2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-005**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-005**		

No.	**DESCRIPTION**	**RESULT OK/NA/PL**	**PL ITEM No.**
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- fire hose not found
- Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed Elmilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-006**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-006**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- fire hose not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-007**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-007**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	M. Elwila	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	:030-FH-008	AREA	: 30
REF. DWGs/DOCs	:030-FH-008		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

. Fire hose not found

. Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdulsadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-009**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-009**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- fire hose NOT found
- Cabinet Contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmihumer	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-010**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-010**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose Not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan		Mohamed Abdul Sealk
SIGNATURE	[signature]		[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-FH-031**	**AREA**	: 30
REF. DWGs/DOCs	: **030-FH-031**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

fire hose not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-Gilani	Abdallah Fathy	Mohamed Abdul Sealeh
SIGNATURE	[signature]	[signature]	M.A. Sealeh
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-PH-032**	**AREA**	: 30
REF. DWGs/DOCs	: **030-PH-032**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilemy	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-PH-033**	**AREA**	: 30
REF. DWGs/DOCs	: **030-PH-033**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-PH-034**	**AREA**	: 30
REF. DWGs/DOCs	: **030-PH-034**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-PH-035**	**AREA**	: 30
REF. DWGs/DOCs	: **030-PH-035**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilam	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-PH-036**	**AREA**	: 30
REF. DWGs/DOCs	: **030-PH-036**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed [signature]	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9 / 6 / 2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-PH-037**	**AREA**	: 30
REF. DWGs/DOCs	: **030-PH-037**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmileimy	Abdallah Fathy	Mohamed Abdul Saadik
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-PH-038**	**AREA**	: 30
REF. DWGs/DOCs	: **030-PH-038**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmi'Cawy	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PH-039	**AREA**	: 30
REF. DWGs/DOCs	: 030-PH-039		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,....etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilaney	Abdallah Fathy	Mohamed Abdel Salah
SIGNATURE	[signature]	[signature]	M. A. Saleh
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
HYDRANT
LP-01 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: **030-PH-040**	**AREA**	: 30
REF. DWGs/DOCs	: **030-PH-040**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check the hydrant model number as per data sheet.	ok	
2	Check the hydrant installation as per approved drawing i.e. location, accessibility, Leakage,….etc	ok	
3	Check hydrant location as per underground plan.	ok	
4	Check hydrant stencilling.	ok	
5	Check pumper connection orientation faced to the road.	ok	
6	Check the hydrant pressure regulating valve conditions.	ok	
7	Check hydrant outlet threads for damage and ensure presence of caps with steel chain.	ok	PL
8	Check hydrant painted as per project specification.	ok	
9	Check opening and closing of the regulating valve.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Ghilan	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-027	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-027		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet content missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilam	Abdallah Fathy	Mohamed Abdelsaed
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/ 1/ 2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-028**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-028**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet content missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-029	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-029		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	NA	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	OK	
3	Check that all cabinet contents conditions and placed as per drawing.	OK	
4	Check that no damage or defect in the cabinet.	OK	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	:030-FH-030	AREA	: 30
REF. DWGs/DOCs	:030-FH-030		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

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PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-031	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-031		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found
Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilany	Abdallah Fathy	Mohamed Abdulsadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-025**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-025**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	OK/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose Not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmileme	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-026	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-026		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	OK/NA	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found
- Cabinet content missing

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed El-[illegible]	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	:030-FH-018	AREA	: 30
REF. DWGs/DOCs	:030-FH-018		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

10000-Z-000-EK7-TMP-0086 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-019	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-019		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose Not found.
- Cabinet Contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9 / 6 / 2021

10000-Z-000-EK7-TMP-0086 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	:030-FH-020	AREA	: 30
REF. DWGs/DOCs	:030-FH-020		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	PL
3	Check that all cabinet contents conditions and placed as per drawing.	ok	PL
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Cabinet Not found.
- fire hose Not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	M.A. Sadek.
DATE			9/6/2021

10000-Z-000-EK7-TMP-0086 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-021**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-021**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet Contents not found.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilam	Abdallah Fathy	Mohamed Abdel Saalek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/8/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-022	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-022		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	OK	

REMARKS AND OBSERVATIONS :

- Fire hose Not found
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**PETROJET**	**ENPPI**	**PPC**
NAME	Mohamed Elsirbeny	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	M Elsirbeny	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	:030-FH-023	AREA	: 30
REF. DWGs/DOCs	:030-FH-023		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	NA	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :
- Fire hose not found.
- Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam		Mohamed Abdul Sadek
SIGNATURE	M Elwilam		M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	**:030-FH-024**	**AREA**	: 30
REF. DWGs/DOCs	**:030-FH-024**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

Fire hose not found.
Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilam	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9 / 6 / 2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-011	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-011		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilany	Abdallah Fathy	Mohamed Abdul Saddik
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:**030-FH-012**	**AREA**	: 30
REF. DWGs/DOCs	:**030-FH-012**		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-013	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-013		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose Not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilmy	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

10000-Z-000-EK7-TMP-0086 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	:030-FH-014	AREA	: 30
REF. DWGs/DOCs	:030-FH-014		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	~~OK~~ N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- fire hose not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmilaw	Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-015	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-015		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS:

- fire hose Not found.
- Cabinet Contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elmi'lam	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	:030-FH-016	**AREA**	: 30
REF. DWGs/DOCs	:030-FH-016		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	OK	
3	Check that all cabinet contents conditions and placed as per drawing.	OK	
4	Check that no damage or defect in the cabinet.	OK	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet contents Missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilan	Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			9/6/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE HOUSE
LP-02 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SYSTEM ID	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	SUB-SYSTEM ID	: 030-LP-010
ITEM TAG No.	:030-FH-017	AREA	: 30
REF. DWGs/DOCs	:030-FH-017		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check that the Hose cabinet tag.	N/A	
2	Check the proper installation of hose cabinet as per drawing and approved by client.	ok	
3	Check that all cabinet contents conditions and placed as per drawing.	ok	
4	Check that no damage or defect in the cabinet.	ok	

REMARKS AND OBSERVATIONS :

- Fire hose not found.
- Cabinet contents missing.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mohamed Elwilam	Abdallah Fathy	Mohamed Abdul Saleh
SIGNATURE	[signature]	[signature]	[signature]
DATE			9/6/2021

7- Piping Commissioning

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

7.01- Service Test, GLT, CLT and N2 Purging Certificates

PETROJET Enppi — Petroleum Pipelines Company شركة أنابيب البترول — EGPC

Service Test
Certificate of Completion and Acceptance

Client	Egyptian General Petroleum Corporation (EGPC)
Project No.	1251-100
Project Description	Crude Oil Tank Farm Project
Location	Agrood Area 30 (Module-01)
System	030-LP-010 (Firefighting Pumps & Fire Water Network System)
Loop No.	030-LP-010 (Firefighting Pumps & Fire Water Network System)
Test Medium	Firefighting Water
Test Pressure	Put in service
Completion Date	22-6- 2021
Attachments	Leak Test Loop Marked-up P&ID

Remarks

- This is to certify that the system described in this certificate of completion has been **Leak Tested using water** after final reinstatement and mechanical completion for the system in accordance with the requirements of the scope of work.
- The test has been witnessed by client representatives and accepted as complete in all aspects on the data marked on the certificate of completion and acceptance.
- The test has been completed to the client satisfaction.

* 30-P-15C out of service according to cracks on suction flange

Performed by PETROJET	Supervised by ENPPI	Approved by PPC
Name: [signature] El Sayed	Name: Ahmed El Shafie	Name: M. Saleh
Title: Hydrotest engineer	Title: Commissioning Manager	Title: Site Manager
Signature: [signature]	Signature: [signature]	Signature: [signature] 23/06/2021
Date: 22/6/2021	Date: 22-6-2021.	Date: 23/06/2021

PETROJET Enppi Petroleum Pipelines Company شركة أنابيب البترول EGPC

Service Test
Certificate of Completion and Acceptance

Client	Egyptian General Petroleum Corporation (EGPC)
Project No.	1251-100
Project Description	Crude Oil Tank Farm Project
Location	Agrood Area 30 (Module-01)
System	030-LP-010 (Firefighting Pumps & Fire Water Network System)
Loop No.	030-LP-010 (Firefighting Pumps & Fire Water Network System)
Test Medium	Firefighting Water
Test Pressure	Put in service
Completion Date	22-6- 2021
Attachments	Leak Test Loop Marked-up P&ID

Remarks

- This is to certify that the system described in this certificate of completion has been **Leak Tested using water** after final reinstatement and mechanical completion for the system in accordance with the requirements of the scope of work.
- The test has been witnessed by client representatives and accepted as complete in all aspects on the data marked on the certificate of completion and acceptance.
- The test has been completed to the client satisfaction.

* 30-P-15C out of service according to cracks on suction flange

Performed by PETROJET	Supervised by ENPPI	Approved by PPC
Name: Ahmed El Sayed	Name: Ahmed El Shafie	Name: M. Saleh
Title: Hydrotest engineer	Title: Commissioning Manager	Title: Site Manager
Signature: [signature]	Signature: [signature]	Signature: [signature] 23/06/2021
Date: 22/6/2021	Date: 22-6-2021.	Date: 23/06/2021

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

7.02- Piping Commissioning Check Lists

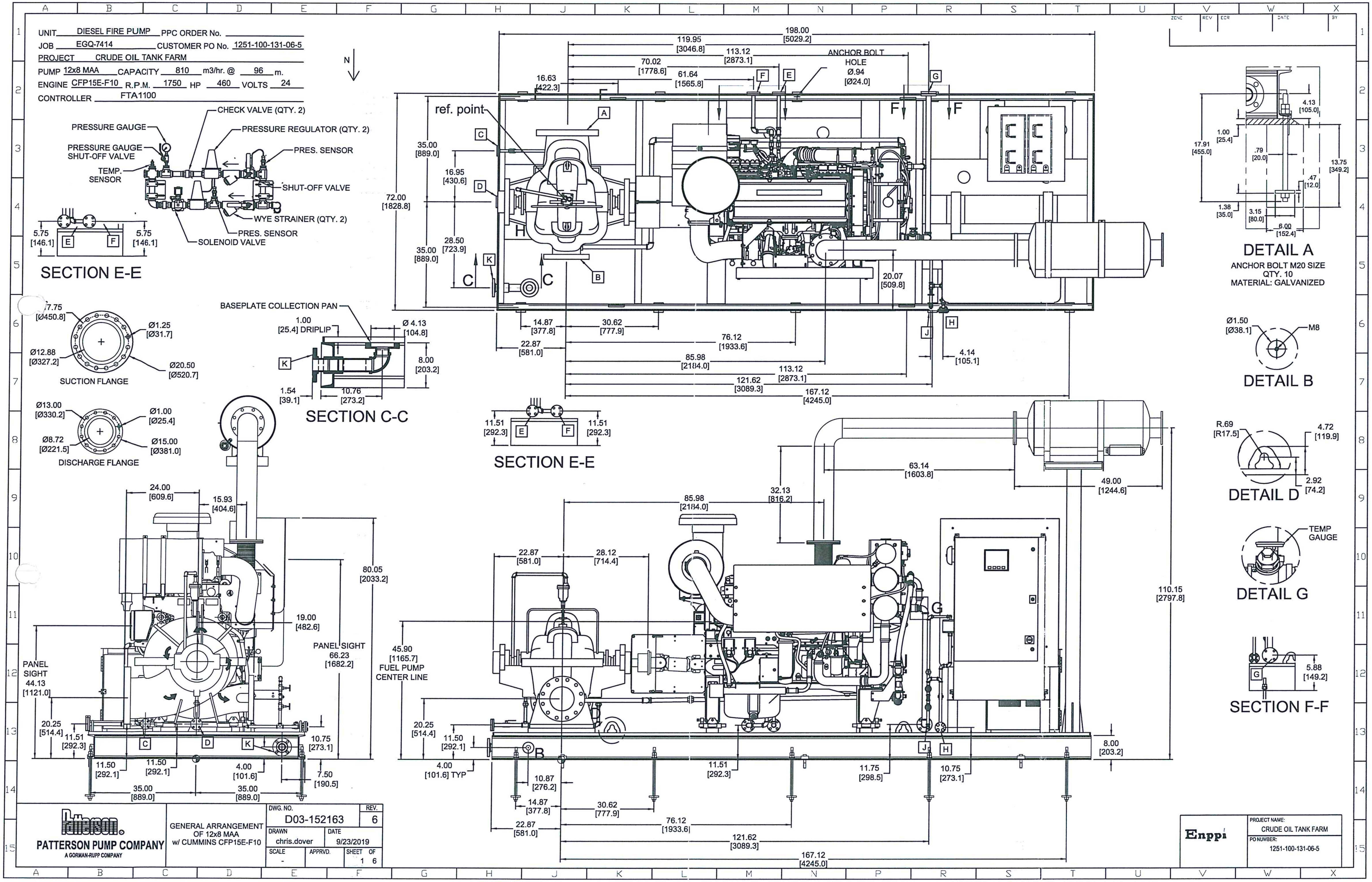
8- Mechanical pre-Commissioning

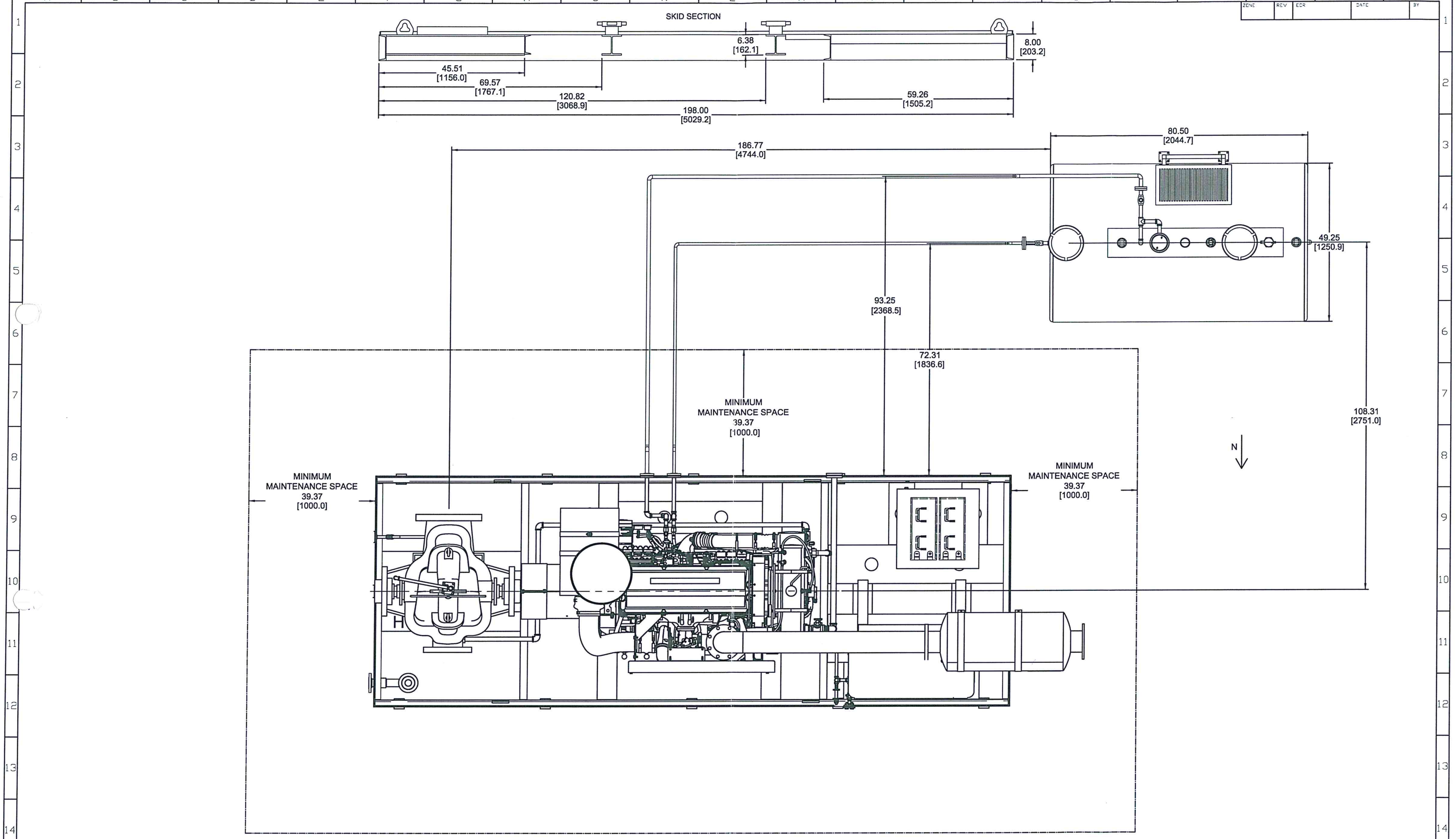
System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

8.01- System Mechanical Index

Enppi PETROJET	Project: 01251-100 CRUDE OIL TANK FARM PROJECT (AGROOD AREA)	Petroleum Pipelines Company شركة أنابيب البترول
System ID	030-LP-010	
System Description	Firefighting Pumps & Fire Water Network	

8.02- Equipment Drawings


UNIT DIESEL FIRE PUMP PPC ORDER No.
JOB EGQ-7414 CUSTOMER PO No. 1251-100-131-06-5
PROJECT CRUDE OIL TANK FARM
PUMP 12x8 MAA CAPACITY 810 m3/hr. @ 96 m.
ENGINE CFP15E-F10 R.P.M. 1750 HP 460 VOLTS 24
CONTROLLER FTA1100
PRESSURE GAUGE
PRESSURE GAUGE SHUT-OFF VALVE
TEMP. SENSOR
CHECK VALVE (QTY. 2)
PRESSURE REGULATOR (QTY. 2)
PRES. SENSOR
SHUT-OFF VALVE
WYE STRAINER (QTY. 2)
PRES. SENSOR
SOLENOID VALVE
SECTION E-E
SUCTION FLANGE
DISCHARGE FLANGE
BASEPLATE COLLECTION PAN
1.00 [25.4] DRIPLIP
SECTION C-C
SECTION E-E
ref. point
ANCHOR BOLT HOLE Ø.94 [Ø24.0]
DETAIL A
ANCHOR BOLT M20 SIZE
QTY. 10
MATERIAL: GALVANIZED
DETAIL B
DETAIL D
TEMP GAUGE
DETAIL G
SECTION F-F
PANEL SIGHT 44.13 [1121.0]
PANEL SIGHT 66.23 [1682.2]
45.90 [1165.7] FUEL PUMP CENTER LINE
PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY
GENERAL ARRANGEMENT OF 12x8 MAA w/ CUMMINS CFP15E-F10
DWG. NO. D03-152163
REV. 6
DRAWN chris.dover
DATE 9/23/2019
SCALE -
APPRVD.
SHEET 1 OF 6
Enppi
PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5



Enppi

PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5

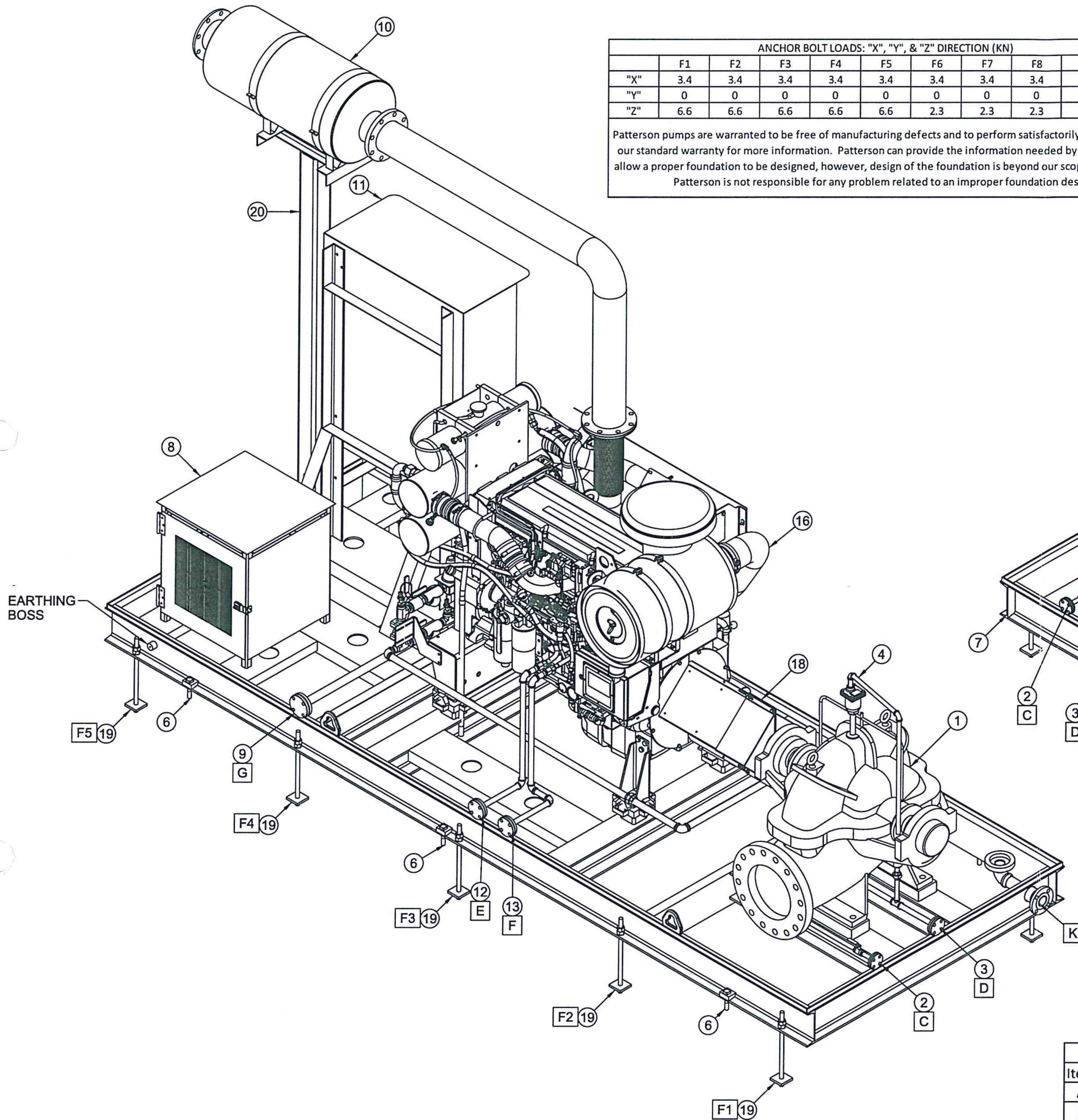
PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY

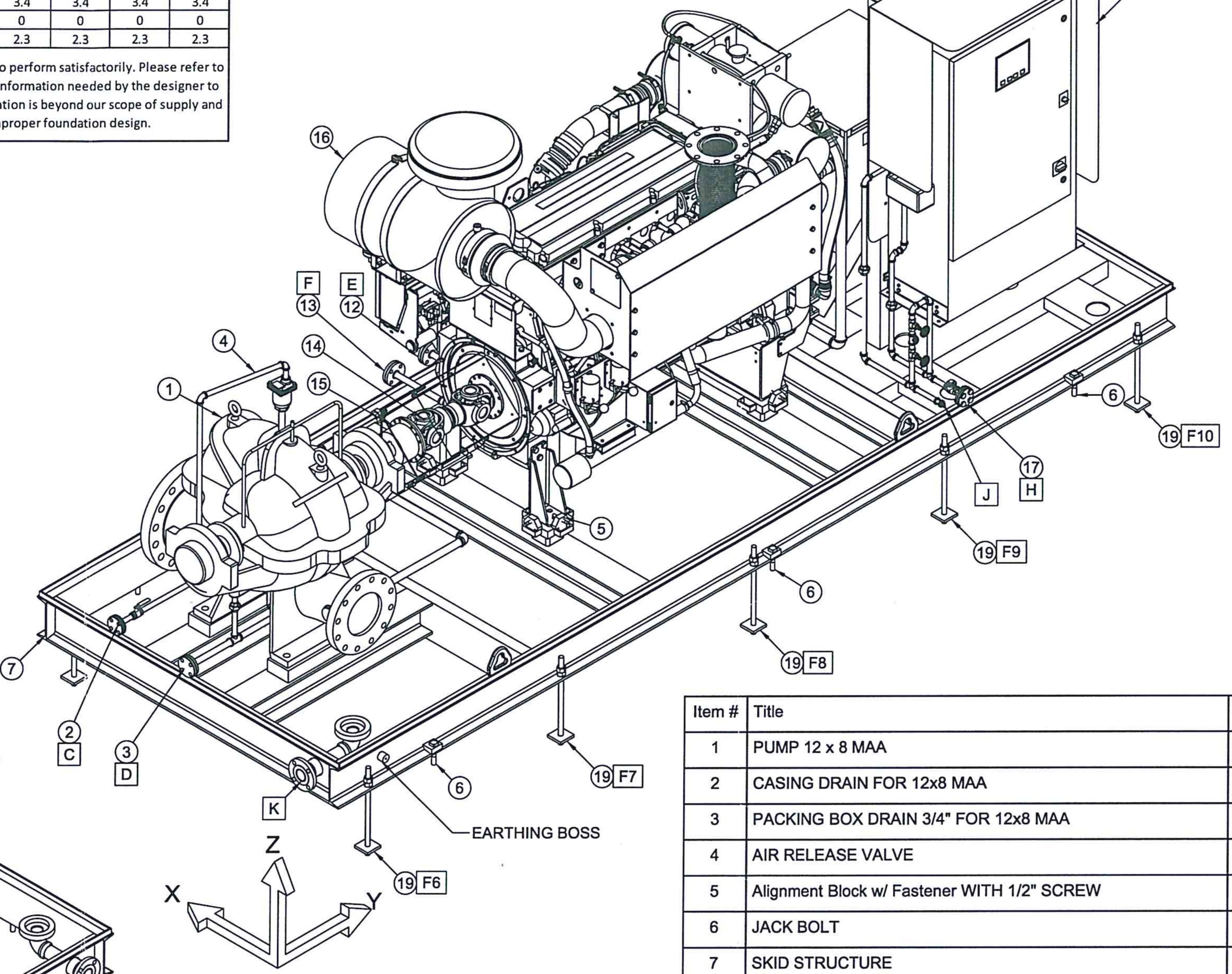
GENERAL ARRANGEMENT
OF 12x8 MAA
w/ CUMMINS CFP15E-F10

DWG. NO.		REV.
D03-152163		6
DRAWN	DATE	
chris.dover	9/23/2019	
SCALE	APPRVD.	SHEET OF
-		2 6

ANCHOR BOLT LOADS: "X", "Y", & "Z" DIRECTION (KN)										
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
"X"	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
"Y"	0	0	0	0	0	0	0	0	0	0
"Z"	6.6	6.6	6.6	6.6	6.6	2.3	2.3	2.3	2.3	2.3

Patterson pumps are warranted to be free of manufacturing defects and to perform satisfactorily. Please refer to our standard warranty for more information. Patterson can provide the information needed by the designer to allow a proper foundation to be designed, however, design of the foundation is beyond our scope of supply and Patterson is not responsible for any problem related to an improper foundation design.





Item #	Title	Qty.
1	PUMP 12 x 8 MAA	1
2	CASING DRAIN FOR 12x8 MAA	1
3	PACKING BOX DRAIN 3/4" FOR 12x8 MAA	1
4	AIR RELEASE VALVE	1
5	Alignment Block w/ Fastener WITH 1/2" SCREW	4
6	JACK BOLT	6
7	SKID STRUCTURE	1
8	BATTERY BOX	1
9	WASTE WATER CFP15E EGQ-7414	1
10	MUFFLER 6" (SUPPLIED LOOSE)	1
11	Controller FTA 1100 WITH SHADE	1
12	FUEL INLET CFP15E EGQ-7414	1
13	FUEL RETURN CFP15E EGQ-7414	1
14	U3172 DRIVESHAFT	1
15	COMPANION FLANGE U3172	1
16	CUMMINS CFP15E-F10 460HP @ 1750 RPM	1
17	SENSING LINE FOR EGQ-7414	1
18	NON SPARKING SHAFT GUARD in brass material FOR U3172	1
19	ANCHOR BOLT M20x 455mm I-TYPE	10
20	MUFFLER SUPPORT (SUPPLIED LOOSE)	

CONNECTION TABLE			
Item	Description	Size	Qty.
A	PUMP SUCTION	12"-300# RF	1
B	PUMP DISCHARGE	8"-300# RF	1
C	CASEING DRAIN	1/2"-150# RF	1
D	PACKING BOX DRAIN	3/4"-150# RF	1
E	FUEL INLET	3/4"-150# RF	1
F	FUEL RETURN	3/4"-150# RF	1
G	WASTE WATER OUTLET	1 1/2"-150# RF	1
H	SENSING LINE INLET	1/2"-150# RF	1
J	SENSING LINE TEST DRAIN	1/2"-150# PLUG	1
K	DRAIN LINE FLANGE	2"-150# RF	1

FUEL SUPPLY/ RETURN FLANGES ARE 1" 150# RF DRILLED WITH 3/4" NPT HOLE

APPROX. WEIGHTS:		
PUMP	2210 LBS	1002 KG
ENGINE	4850 LBS	2200 KG
SKID	1650 LBS	748 KG
BATTERIES/RACK	550 LBS	249 KG
MUFFLER/STAND	520 LBS	236 KG
CONTROLLER	200 LBS	91 KG
TOTAL DRY =	9980 LBS	4527 KG

Enppi

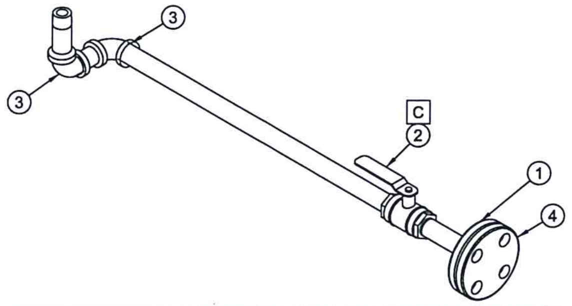
PROJECT NAME: CRUDE OIL TANK FARM

PO NUMBER: 1251-100-131-06-5

PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY

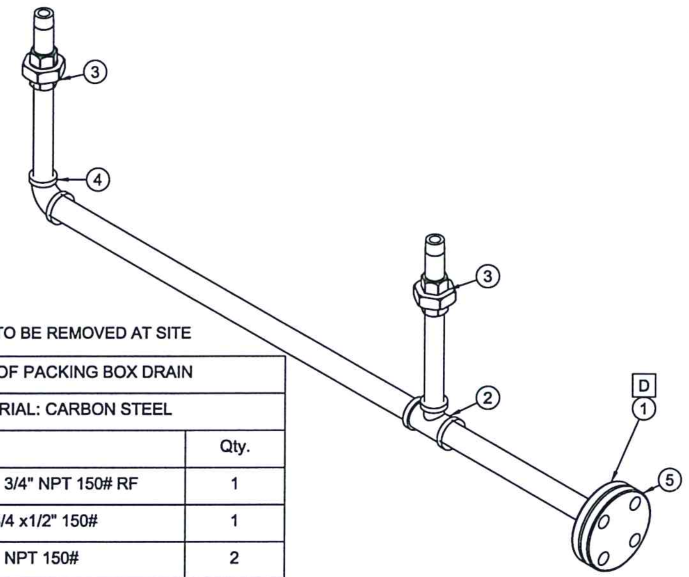
GENERAL ARRANGEMENT
OF 12x8 MAA
w/ CUMMINS CFP15E-F10

DWG. NO.		REV.
D03-152163		6
DRAWN: chris.dover	DATE: 9/23/2019	
SCALE: -	APPRVD.	SHEET 3 OF 6



DETAIL OF PUMP CASING DRAIN		
MATERIAL: CARBON STEEL		
Item #	Title	Qty.
1	FLG COMP 1/2" NPT 150# RF	1
2	VLV BALL 1/2" NPT WBV-3	1
3	ELBOW 1/2" NPT 150# 90 DEG	2
4	BLIND FLG 1/2"-150# RF	1

PIPING SHOWN FOR REFERENCE ONLY. ACTUAL PIPING ROUTE WILL BE DETERMINED BY ASSEMBLERS AT ASSEMBLY.



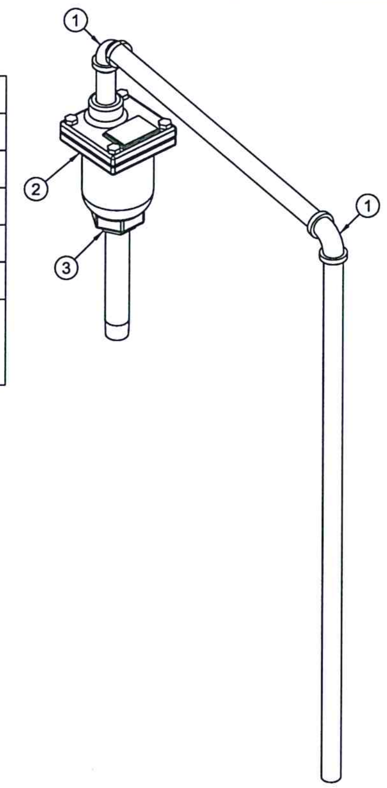
BLIND FLANGES TO BE REMOVED AT SITE

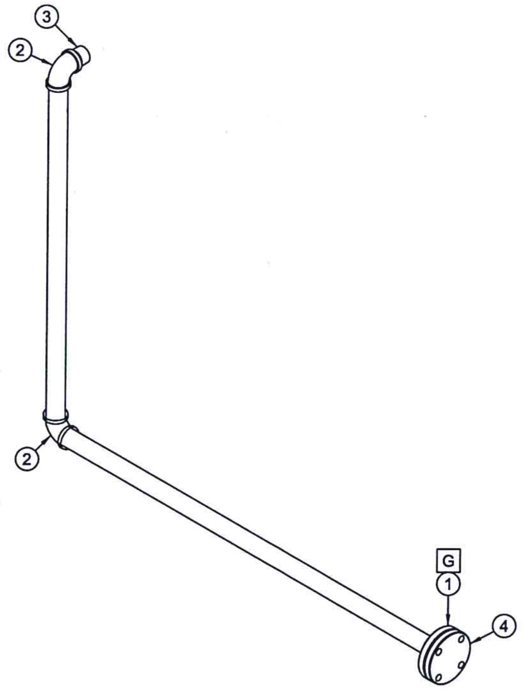
DETAIL OF PACKING BOX DRAIN		
MATERIAL: CARBON STEEL		
Item #	Title	Qty.
1	FLG COMP 3/4" NPT 150# RF	1
2	TEE 3/4"x 3/4 x1/2" 150#	1
3	UNION 1/2" NPT 150#	2
4	ELBOW 3/4" x 1/2" 150#	1
5	FLG BLD 3/4" 150# RF	1

PIPING SHOWN FOR REFERENCE ONLY. ACTUAL PIPING ROUTE WILL BE DETERMINED BY ASSEMBLERS AT ASSEMBLY.

DETAIL OF AIR RELEASE VALVE		
MATERIAL: CARBON STEEL		
Item #	Title	Qty.
1	ELBOW 1/2" NPT 150# 90 DEG	2
2	VLV RLF AIR 1" 300# CLA-VAL #34 A	1
3	BUSHING 1" x 3/4" NPT 125#	1

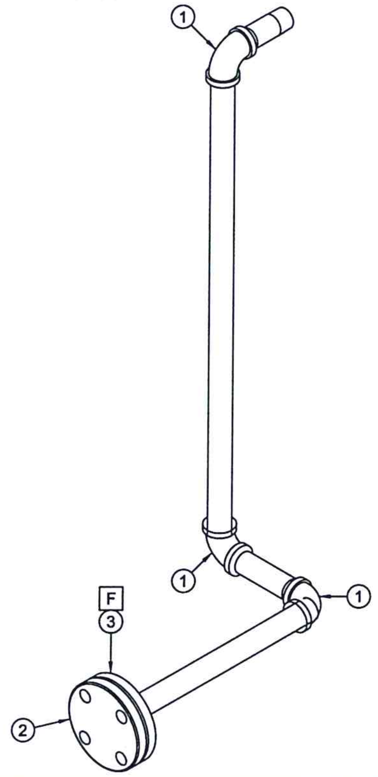
PIPING SHOWN FOR REFERENCE ONLY. ACTUAL PIPING ROUTE WILL BE DETERMINED BY ASSEMBLERS AT ASSEMBLY.





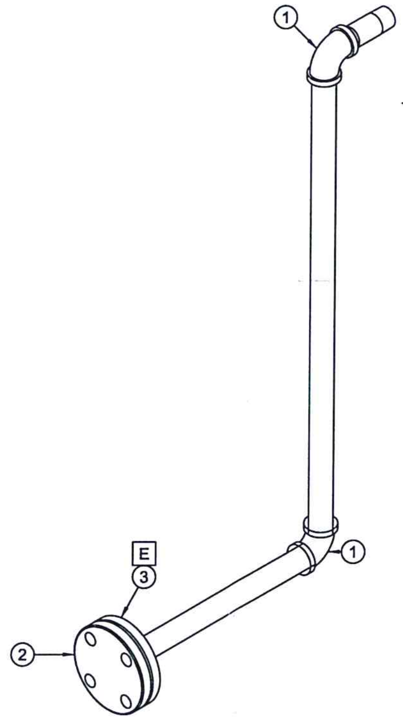
DETAIL OF WASTE WATER OUTLET		
MATERIAL: CARBON STEEL		
Item #	Title	Qty.
1	FLG COMP1 1/4"NPTx5"OD (1 1/2"-150#) RF	1
2	ELBOW 1 1/4" NPT 150# 90 DEG	2
3	PIPE T/T 1 1/4"SCH40 x 2"LG	1
4	BLIND FLG 1-1/2" 150# RF	1

PIPING SHOWN FOR REFERENCE ONLY. ACTUAL PIPING ROUTE WILL BE DETERMINED BY ASSEMBLERS AT ASSEMBLY.



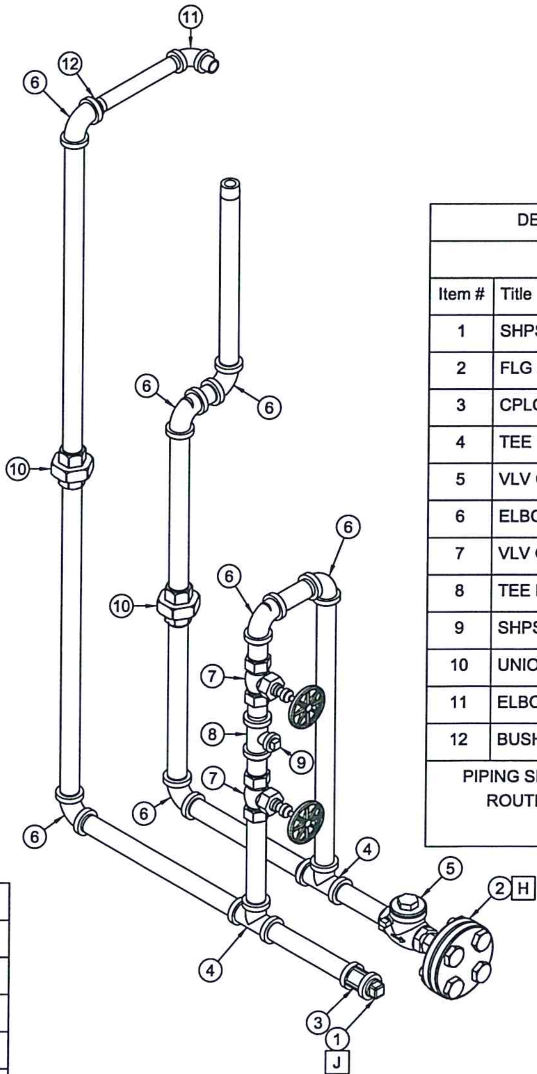
DETAIL OF FUEL RETURN		
MATERIAL: CARBON STEEL		
Item #	Title	Qty.
1	ELBOW 3/4" NPT 90 DEG 150#	3
2	1" 150# - raised face - blind flange, ASME B16.5	1
3	FLG COMP 3/4"NPT X 4 1/4"OD 150#RF	1

PIPING SHOWN FOR REFERENCE ONLY. ACTUAL PIPING ROUTE WILL BE DETERMINED BY ASSEMBLERS AT ASSEMBLY.



DETAIL OF FUEL INLET		
MATERIAL: CARBON STEEL		
Item #	Title	Qty.
1	ELBOW 3/4" NPT 90 DEG 150#	2
2	1" 150# - raised face - blind flange, ASME B16.5	1
3	FLG COMP 3/4"NPT X 4 1/4"OD 150#RF	1

PIPING SHOWN FOR REFERENCE ONLY. ACTUAL PIPING ROUTE WILL BE DETERMINED BY ASSEMBLERS AT ASSEMBLY.



DETAIL OF SENSING LINE INLET/TEST DRAIN		
MATERIAL: STAINLESS STEEL		
Item #	Title	Qty.
1	SHPS 1/2" NPT	1
2	FLG COMP 1/2" NPT 150# RF	1
3	CPLG 1/2" NPT 150#	1
4	TEE 1/2" NPT 150#	2
5	VLV CHK 1/2" W/ 3/32" ORIFICE	1
6	ELBOW 1/2" NPT 150# 90 DEG	7
7	VLV GLB 1/2" KT-65UL 150#	2
8	TEE RED 1/2"x1/2"x1/4" NPT 150#	1
9	SHPS 1/4" NPT	1
10	UNION 1/2" NPT 150#	2
11	ELBOW 3/8" NPT 150# 90 DEG	1
12	BUSHING RED HEX 1/2"x3/8" NPT 125#	1

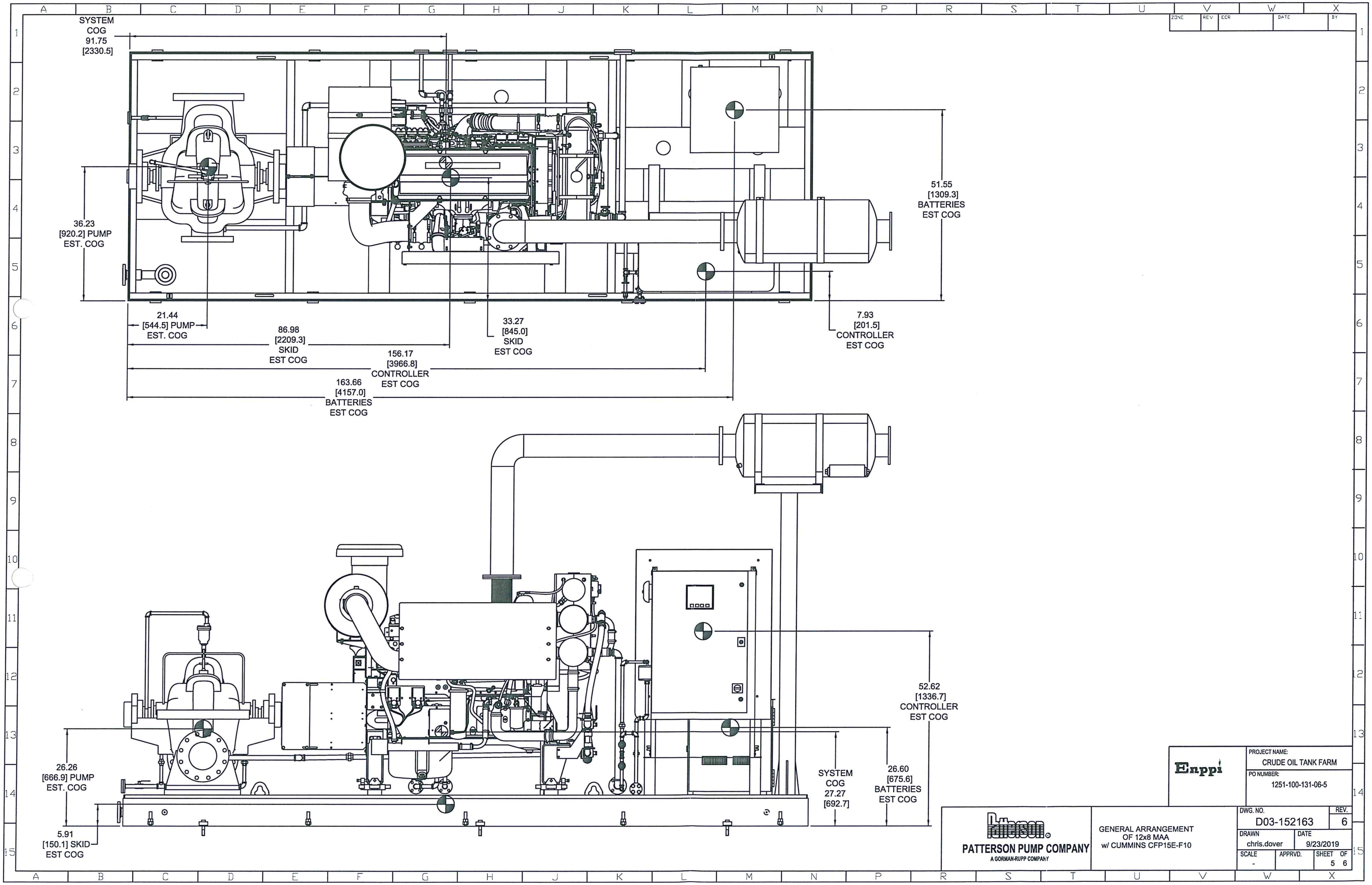
PIPING SHOWN FOR REFERENCE ONLY. ACTUAL PIPING ROUTE WILL BE DETERMINED BY ASSEMBLERS AT ASSEMBLY.

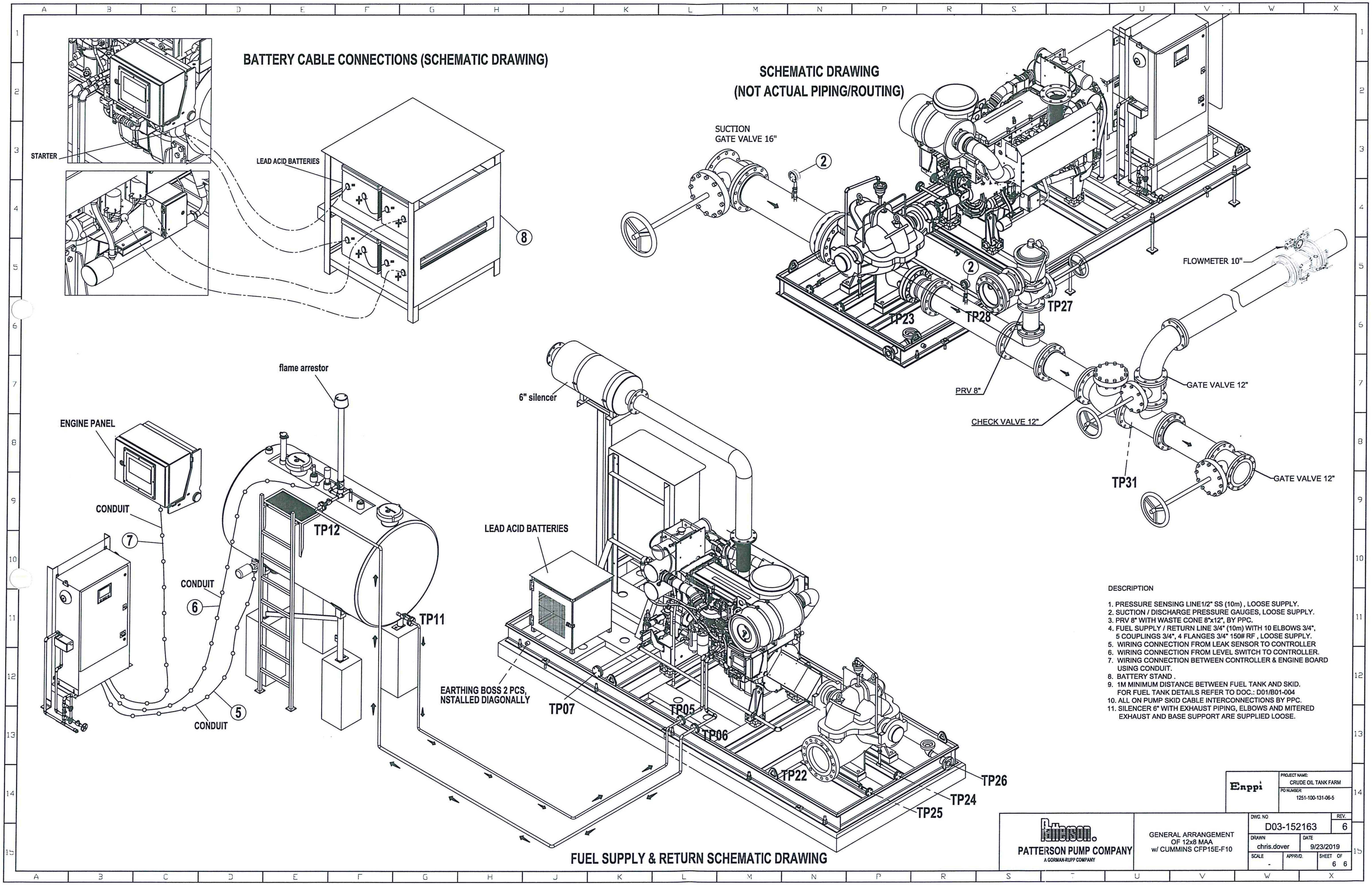
Enppi — PROJECT NAME: CRUDE OIL TANK FARM — PO NUMBER: 1251-100-131-06-5

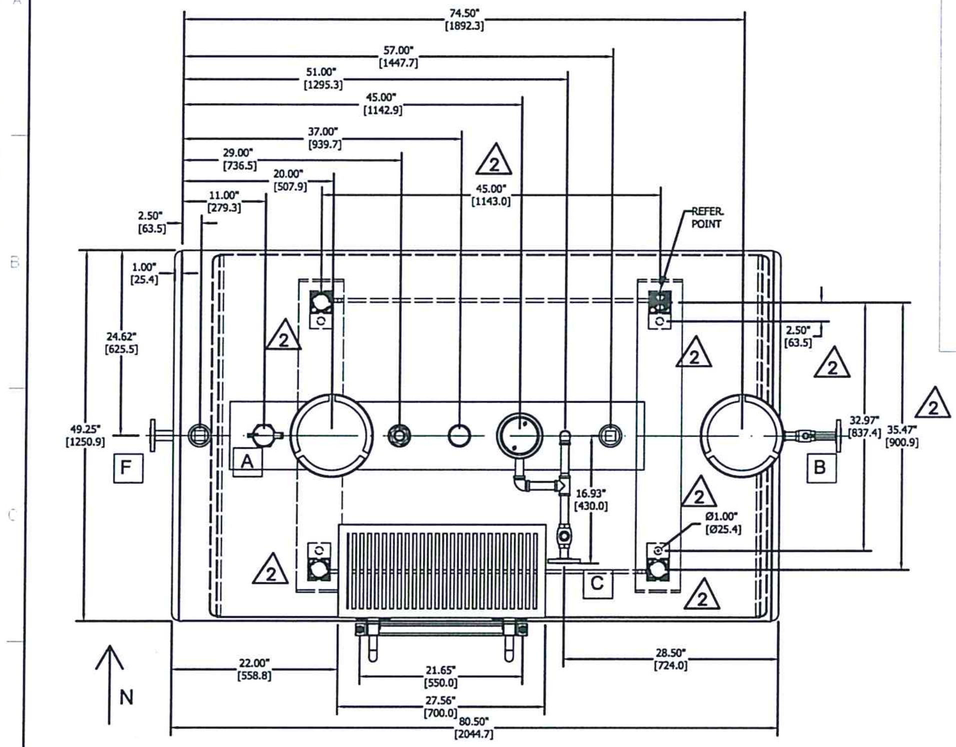
PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY

GENERAL ARRANGEMENT OF 12x8 MAA w/ CUMMINS CFP15E-F10

DWG. NO.	REV.
D03-152163	6
DRAWN: chris.dover	DATE: 9/23/2019
SCALE: -	APPRVD.	SHEET 4 OF 6

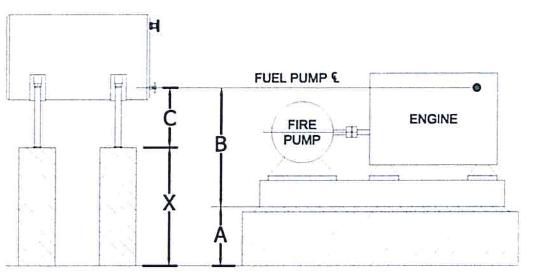

SYSTEM
COG
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36.23
[920.2] PUMP
EST. COG
21.44
[544.5] PUMP
EST. COG
86.98
[2209.3]
SKID
EST COG
33.27
[845.0]
SKID
EST COG
156.17
[3966.8]
CONTROLLER
EST COG
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BATTERIES
EST COG
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BATTERIES
EST COG
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CONTROLLER
EST COG
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CONTROLLER
EST COG
26.26
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EST. COG
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[150.1] SKID
EST COG
SYSTEM
COG
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[675.6]
BATTERIES
EST COG
ZONE REV ECR DATE BY
Enppi
PROJECT NAME:
CRUDE OIL TANK FARM
PO NUMBER:
1251-100-131-06-5
PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY
GENERAL ARRANGEMENT
OF 12x8 MAA
w/ CUMMINS CFP15E-F10
DWG. NO.
D03-152163
REV.
6
DRAWN
chris.dover
DATE
9/23/2019
SCALE
-
APPRVD.
SHEET OF
5 6


BATTERY CABLE CONNECTIONS (SCHEMATIC DRAWING)
STARTER
LEAD ACID BATTERIES
8
SCHEMATIC DRAWING
(NOT ACTUAL PIPING/ROUTING)
SUCTION
GATE VALVE 16"
2
FLOWMETER 10"
TP23
TP28
TP27
PRV 8"
GATE VALVE 12"
CHECK VALVE 12"
TP31
GATE VALVE 12"
flame arrestor
6" silencer
ENGINE PANEL
CONDUIT
7
TP12
LEAD ACID BATTERIES
CONDUIT
6
TP11
EARTHING BOSS 2 PCS,
NSTALLED DIAGONALLY
TP07
TP05
TP06
5
CONDUIT
TP22
TP26
TP24
TP25
FUEL SUPPLY & RETURN SCHEMATIC DRAWING
DESCRIPTION
1. PRESSURE SENSING LINE1/2" SS (10m) , LOOSE SUPPLY.
2. SUCTION / DISCHARGE PRESSURE GAUGES, LOOSE SUPPLY.
3. PRV 8" WITH WASTE CONE 8"x12", BY PPC.
4. FUEL SUPPLY / RETURN LINE 3/4" (10m) WITH 10 ELBOWS 3/4", 5 COUPLINGS 3/4", 4 FLANGES 3/4" 150# RF , LOOSE SUPPLY.
5. WIRING CONNECTION FROM LEAK SENSOR TO CONTROLLER
6. WIRING CONNECTION FROM LEVEL SWITCH TO CONTROLLER.
7. WIRING CONNECTION BETWEEN CONTROLLER & ENGINE BOARD USING CONDUIT.
8. BATTERY STAND .
9. 1M MINIMUM DISTANCE BETWEEN FUEL TANK AND SKID. FOR FUEL TANK DETAILS REFER TO DOC.: D01/B01-004
10. ALL ON PUMP SKID CABLE INTERCONNECTIONS BY PPC.
11. SILENCER 6" WITH EXHAUST PIPING, ELBOWS AND MITERED EXHAUST AND BASE SUPPORT ARE SUPPLIED LOOSE.
Enppi
PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5
PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY
GENERAL ARRANGEMENT
OF 12x8 MAA
w/ CUMMINS CFP15E-F10
DWG. NO D03-152163
REV. 6
DRAWN chris.dover
DATE 9/23/2019
SCALE -
APPRVD.
SHEET 6 OF 6



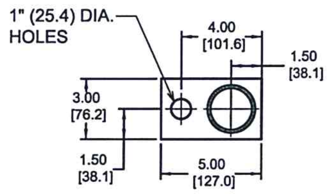
FUEL SUPPLY VALVE ELEVATION CALCULATION

Per NFPA-20 the fuel supply valve shall have the same elevation as the engine's fuel pump.



A : ELEVATION OF FOUNDATION (200 mm).
B : ELEVATION FROM BOTTOM OF SKID TO FUEL PUMP CENTERLINE (1166 mm)
C : FUEL SUPPLY NOZZLE HEIGHT FROM BOTTOM OF TANK LEGS (588 mm)

X = A + B - C ≥ 778 mm, final 800.0mm



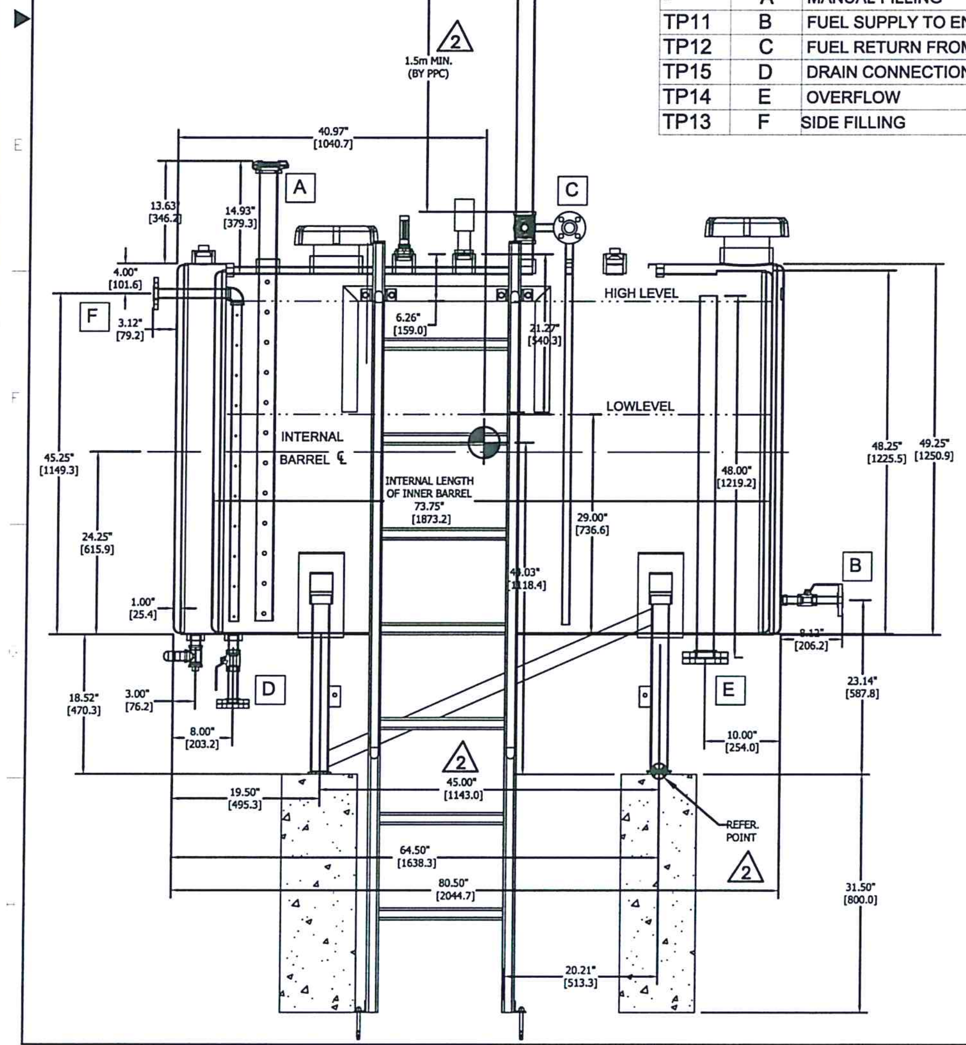
FOOTPLATE DETAIL

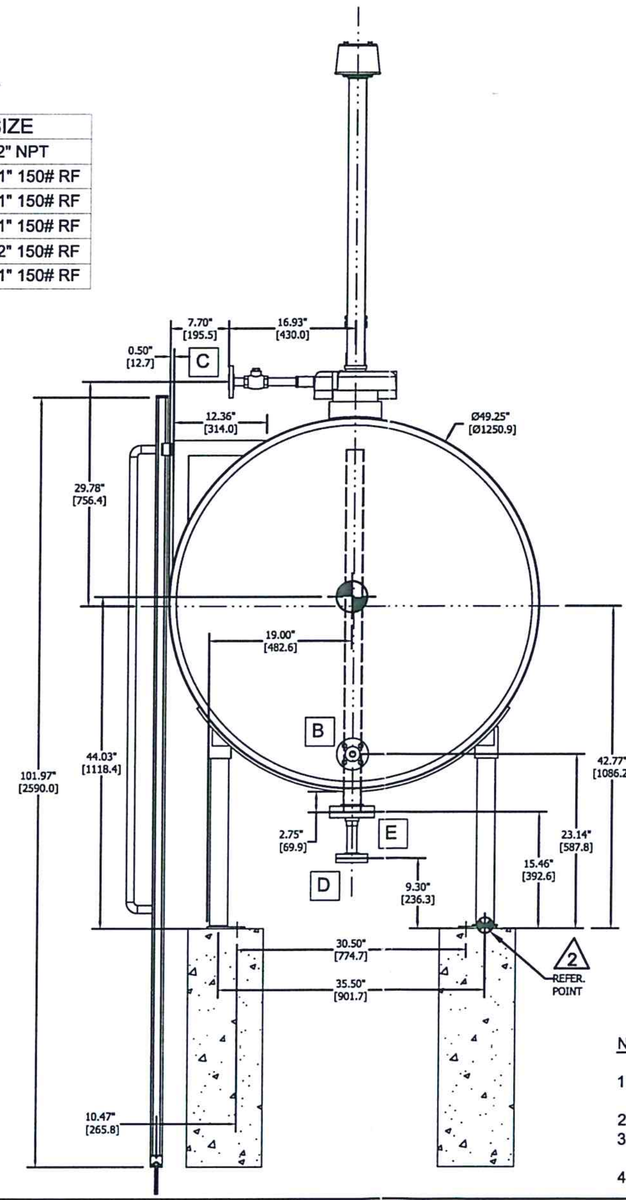
Item Number	DESCRIPTION	Quantity	Material
1	FUEL TANK BODY 3.2mm THICK	1	ASTM A36
2	FLG 1" 150# RF	2	ASTM A105N
3	BALL VALVE 1" NPT	1	BRONZE B62
4	1" 150# RF BLIND	1	ASTM A105N
5	LADDER WITH PLATFORM 700mm	-	ASTM A36
6	LEAK SENSOR 1" NPT	1	POLYPROPYLENE
7	1" PLUG	1	ASTM A234
8	3/4" NPT BALL VALVE	1	BRONZE B62
9	EMERGENCY VENT 6" NPTM	2	CAST IRON ASTM A644
10	2" COUPLING	4	ASTM A234
11	3/4" NPT CHECK VALVE	1	BRONZE B62
12	1" 150# RF drilled with 3/4" npt hole	2	ASTM A105N
13	1" PIPE PERFORATED 42" LONG	1	ASTM A53
14	2" PIPE PERFORATED 48" LONG	1	ASTM A53

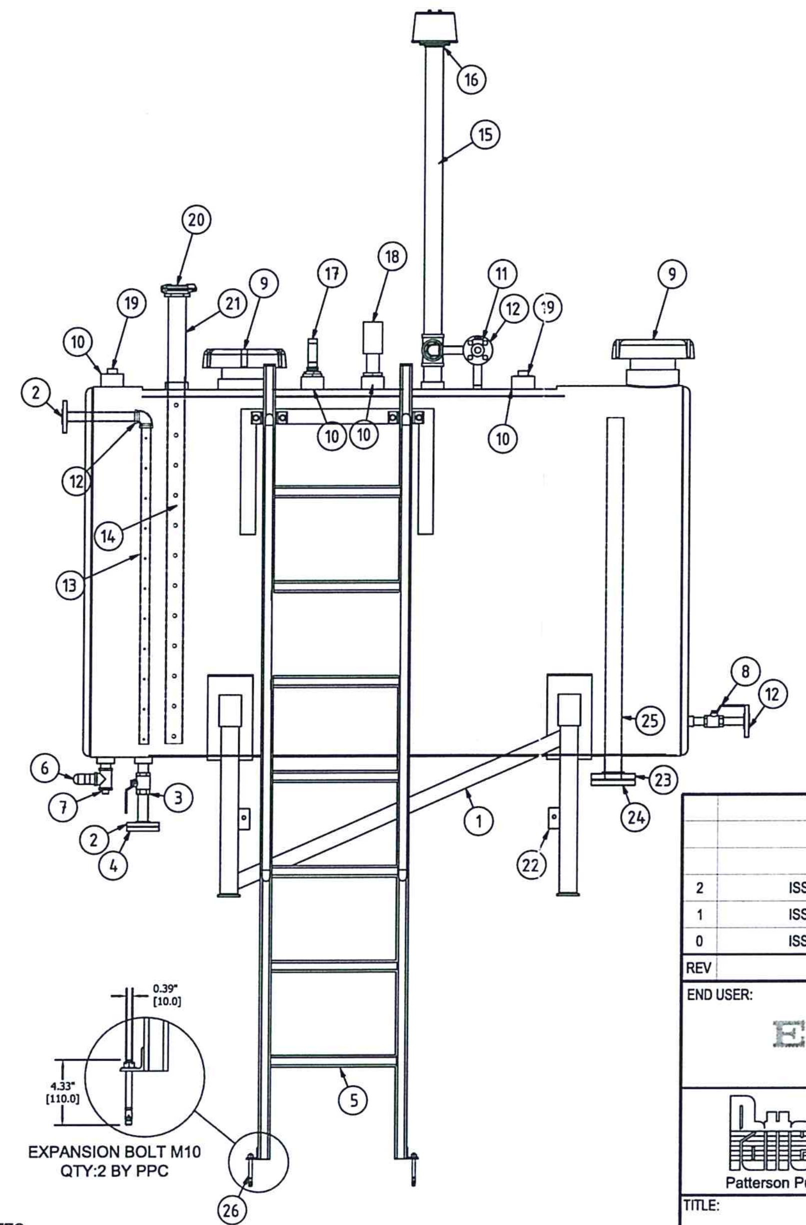
Item Number	DESCRIPTION	Quantity	Material
15	2" NPT PIPE , 1.5m LONG MINIMUM BY PPC (2)	1	ALUMINUM
16	WEATHER VENT. 2" FNPT (flame arrestor)	1	ALUMINUM
17	LEVEL GAUGE 1.5" NPTM	1	ALUMINIUM
18	LEVEL SWITCH 1.25" NPTM	1	ALUMINIUM
19	2" NPTM PLUG	1	ASTM A234
20	2" CAP WITH PADLOCK	1	CAR. STEEL
21	2" PIPE , 12" LONG (WITH STRAINER IN SS)	1	ASTM A53
22	EARTHING PLATE DIAGONALLY	2	316 SS
23	2" 150# RF	1	ASTM A105N
24	2" 150# RF BLIND	1	ASTM A105N
25	2" PIPE , 48" LONG	1	ASTM A53
26	M10x110 EXPANSION BOLT FOR LADDER	2	GALV. STEEL

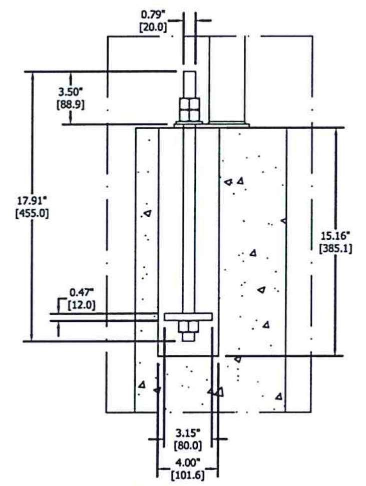
TIE IN POINT LIST

TP#	ITEM#	DESCRIPTION	SIZE
-	A	MANUAL FILLING	2" NPT
TP11	B	FUEL SUPPLY TO ENGINE	1" 150# RF
TP12	C	FUEL RETURN FROM ENGINE	1" 150# RF
TP15	D	DRAIN CONNECTION	1" 150# RF
TP14	E	OVERFLOW	2" 150# RF
TP13	F	SIDE FILLING	1" 150# RF

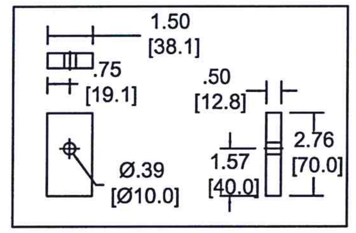








ANCHOR BOLT M20
QTY:4 BY PPC



EXPANSION BOLT M10
QTY:2 BY PPC

NOTES

1. THE DESIGN DATA FOR THE DAY TANK SHALL BE SPECIFIED BY NFPA20 AND UL 142.
2. Fuel Tank inner / outlet thickness: 5.0 mm
3. Temperature Design / Operating: 85 °C / 60 °C
   Pressure Design / Operating: 1.0 Barg / Atm.
4. DYNAMIC LOADS ARE NEGLIGIBLE.

Capacity: 550 gallon
WEIGHT EMPTY = 564.0 kg
WEIGHT FULL = 2328.0 kg

REV	DESCRIPTION	DWRN	CHK'D	APP'D	DATE
2	ISSUED FOR APPROVAL	GN	AG	AG	15-APR-2020
1	ISSUED FOR APPROVAL	GN	AG	AG	24-MAR-2020
0	ISSUED FOR APPROVAL	GN	AG	AG	26-FEB-2020

END USER: Enppi

Patterson Pump Company

PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5
SEQ. NO. : D01
JOB NO. : EGQ-7414
DWG SIZE:
SCALE :

TITLE: Diesel Fuel Tank Drawing 550 Gallon Double Wall

DWG NO.: ATH-FT550DW-200226 | SHT: 1/1 | REV: 2

CUSTOMER NAME ENPPI	PROJECT NAME NEW CRUDE OIL TANK FARM	QUOTE REF. EGQ-7414
PUMP IC 80-50-315	CAPACITY (M3/HR) 57	PRESSURE (M) 103.0
DRIVER MODEL ABB M3BP 225 SMA2	POWER (KW) 40	SPEED (RPM) 2950
CONTROLLER MODEL FIRETROL FTA550E		

WEIGHT	
PUMP:	140 kg
MOTOR:	347 kg
CONTROLLER	45 kg
BASE:	300 kg
ACC/RIES:	24 kg
TOTAL:	856 kg

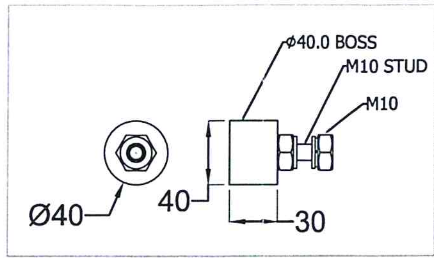
TP#	PART	DESCRIPTION	SIZE
TP01	J	JOCKEY PUMP SUCTION	3" 150# RF
TP02	K	JOCKEY PUMP DISCHARGE	2" 150# RF
TP03	I	JOCKEY CASING DRAIN	1/2" 150# RF
TP19	Q	PRESSURE SENSING LINE	1/2" 150# RF
TP20	P	PRESSURE SENSING LINE DRAIN	1/2" NPT PLUGGED
TP33	M	PACKING BOX DRAIN	1/2" 150# RF
TP34	N	BASEPLATE DRAIN	1/2" 150# RF

PART	DESCRIPTION	MATERIAL
A	COUPLING GUARD non sparking	BRASS
B	8 X 20mm ANCHOR BOLT HOLES	-
C	LIFTING PLATES	STEEL
D	TERMINAL BOX	CAST IRON
E	SPACER COUPLING 140mm	CARBON STEEL
F	MOTOR ALIGNMENT BLOCK (8 ITEMS)	STEEL
G	EARTHING BOSS M10	STEEL
H	LEVELING BLOCK M16 x 6	STEEL
L	CONTROL PANEL WITH SHADE	MNF. STD.

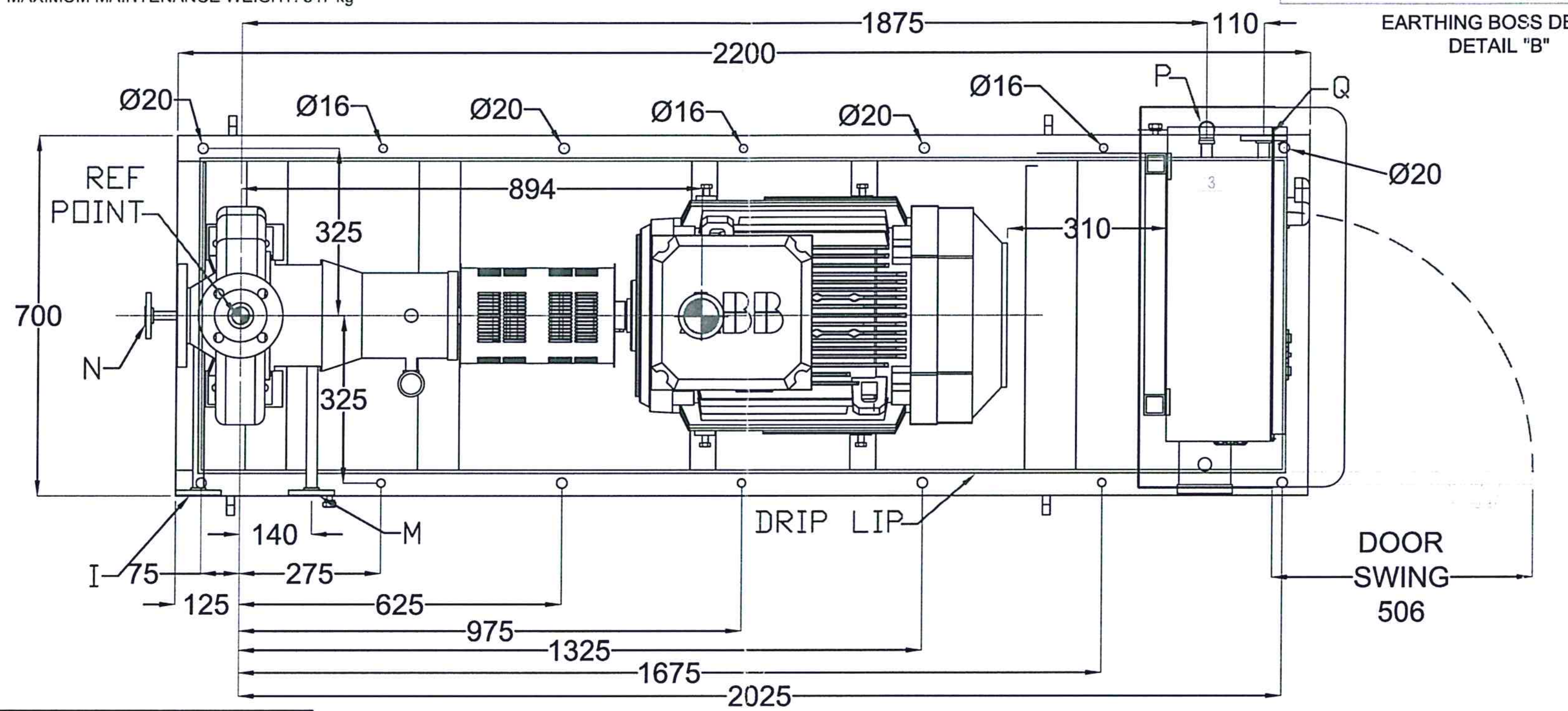
MAXIMUM MAINTENANCE WEIGHT: 347 kg

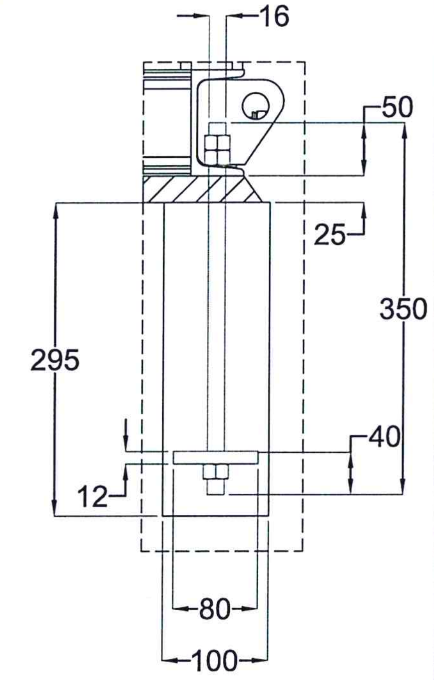
NOTES:

1. MAINTENANCE SPACE AROUND SKID: 1.0 m
2. ALL DIMENSIONS ARE IN SI UNITS (MILLIMETERS UNLESS OTHERWISE STATED)
3. PUMP FLANGES AND ALL PURCHASER INTERFACE NOZZLES COMPLY TO ASME B16.5 .

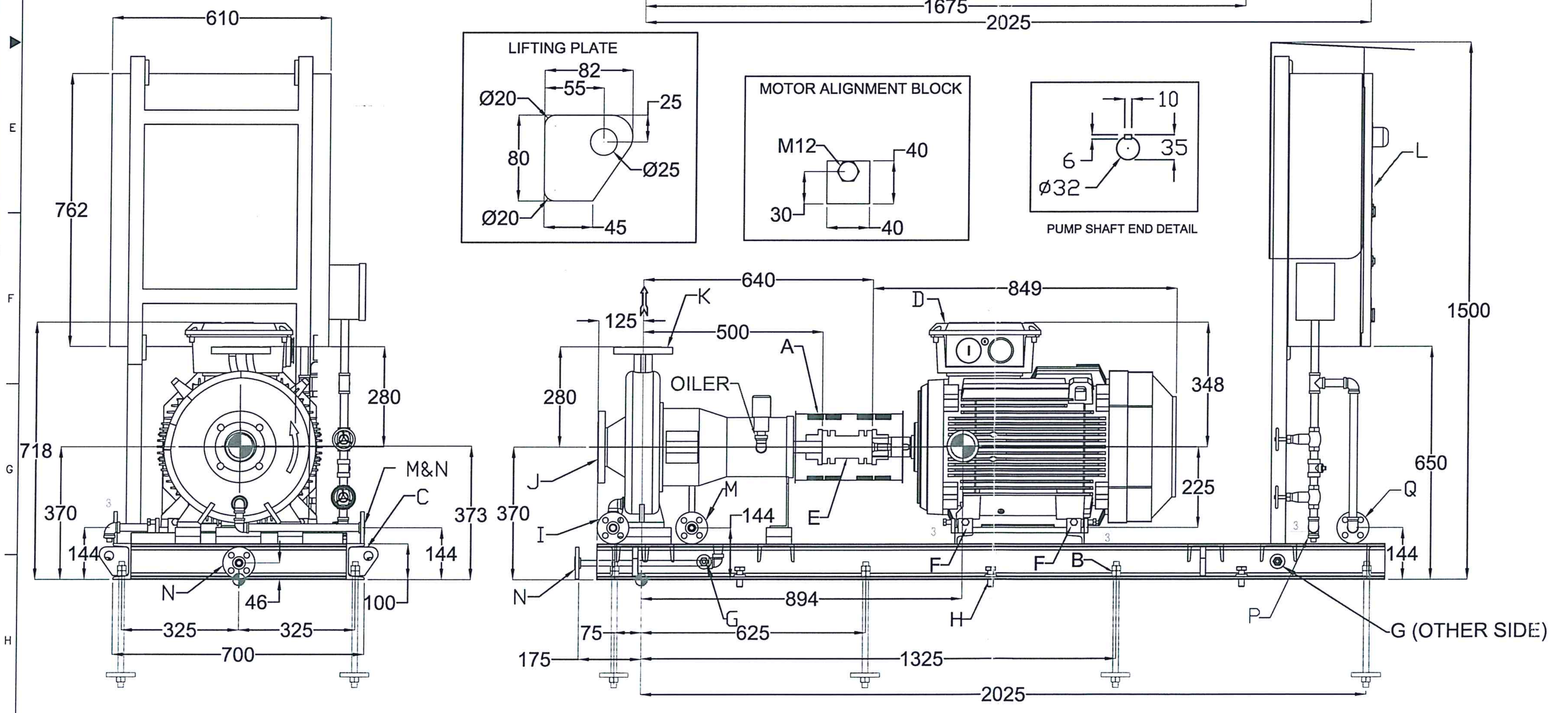


EARTHING BOSS DETAIL
DETAIL "B"





POCKET SIZE 100 x 100 x 295mm
ANCHOR BOLT M16
HOT DIP GALVANIZED
TYPE-P BY PPC, QTY: 8



030-P-016 A/B

REV	DESCRIPTION	DWRN	CHK'D	APP'D	DATE
3	ISSUED FOR APPROVAL	GN	GN	AG	18-MAR-2020
2	ISSUED FOR APPROVAL	GN	GN	AG	25-FEB-2020
1	ISSUED FOR APPROVAL	GN	GN	AG	11-FEB-2020
0	ISSUED FOR APPROVAL	GN	GN	AG	23-JAN-2020

END USER: Enppi

PROJECT NAME: CRUDE OIL TANK FARM

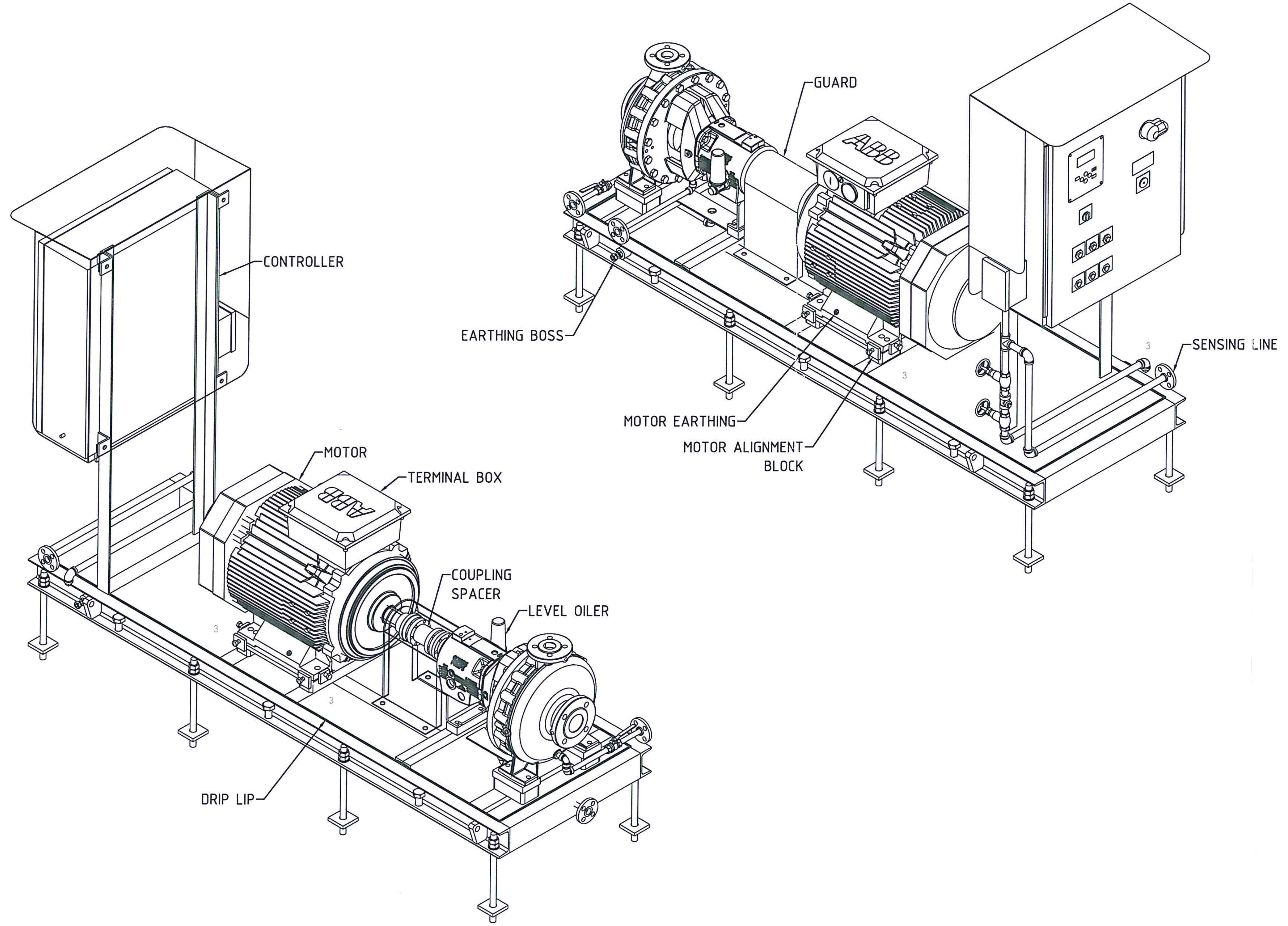
PO NUMBER: 1251-100-131-06-5

Patterson Pump Company

SEQ. NO. : E02
JOB NO. : EGQ-7414
DWG SIZE:
SCALE :

TITLE: JOCKEY PUMP
GENERAL ARRANGEMENT
Tag No. : 010-P-016 A/B, 030-P-016 A/B, 040-P-016 A/B
020-P-016 A/B, 031-P-016 A/B, 050-P-016 A/B
021-P-016 A/B 060-P-016 A/B

DWG NO.:	SHT:	REV:
ATH-JPGA-191217	1 OF 2	3



REV	DESCRIPTION	DWRN	CHK'D	APP'D	DATE
3	ISSUED FOR APPROVAL	GN	GN	AG	18-MAR-2020
2	ISSUED FOR APPROVAL	GN	GN	AG	25-FEB-2020
1	ISSUED FOR APPROVAL	GN	GN	AG	11-FEB-2020
0	ISSUED FOR APPROVAL	GN	GN	AG	23-JAN-2020

END USER: Enppi

PROJECT NAME: CRUDE OIL TANK FARM

PO NUMBER: 1251-100-131-06-5

Patterson Pump Company

SEQ. NO. : E02

JOB NO. : EGQ-7414

DWG SIZE:

SCALE :

TITLE: JOCKEY PUMP
GENERAL ARRANGEMENT

Tag No. : 010-P-016 A/B, 030-P-016 A/B, 040-P-016 A/B
020-P-016 A/B, 031-P-016 A/B, 050-P-016 A/B
021-P-016 A/B 060-P-016 A/B

DWG NO.: ATH-JPGA-191217

SHT: 2 OF 2

REV: 3

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

8.03- Equipment Datasheets

30-LP-10

PETROJET بتروجت | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

REQUEST FOR INSPECTION
RFI

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 5 / 4 / 2021

009 S

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Elevation check for: 030-T-11 A
Diesel Fuel Tank

Time :

Date 5 / 4 / 2021

Reference Documents # :

Mech. DWG. No: ATH-FTSSODW-200226
Plot Plan No: 01251-100-030-KPP-002
Survey Report for elevation

CONTRACTOR Comment:

Release for Grout.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif Mostafa	Abdallah Fathy	Mohamed Abdel Sadek
Sign.	[signature]	[signature]	[signature]
Date			

Civil QC: Mahmoud abdelaziz

EGPC | Petroleum Pipelines Company — شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET بتروجت | Enppi

Project : **INSPECTION SURVEYING REPORT**

RIT No : ____ Report No : ____ Area : 030

STRUCTURE / ELEMENT : 030 – T – 11 A DESCRIPTION : Diesel Fuel Tank

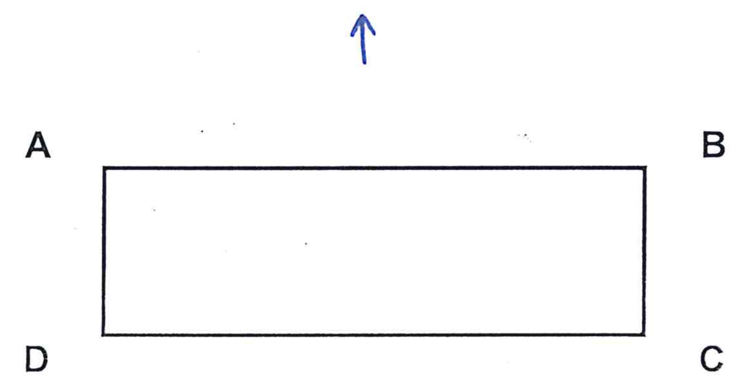
DWG : ATH-FTS50-DW-200226 Rev : ____ Status : ____

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS

Section

NO	THIORITICAL	ACTUAL	
A	102.813	102.816	
B	102.813	102.816	
C	102.813	102.817	
D	102.813	102.816	



REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

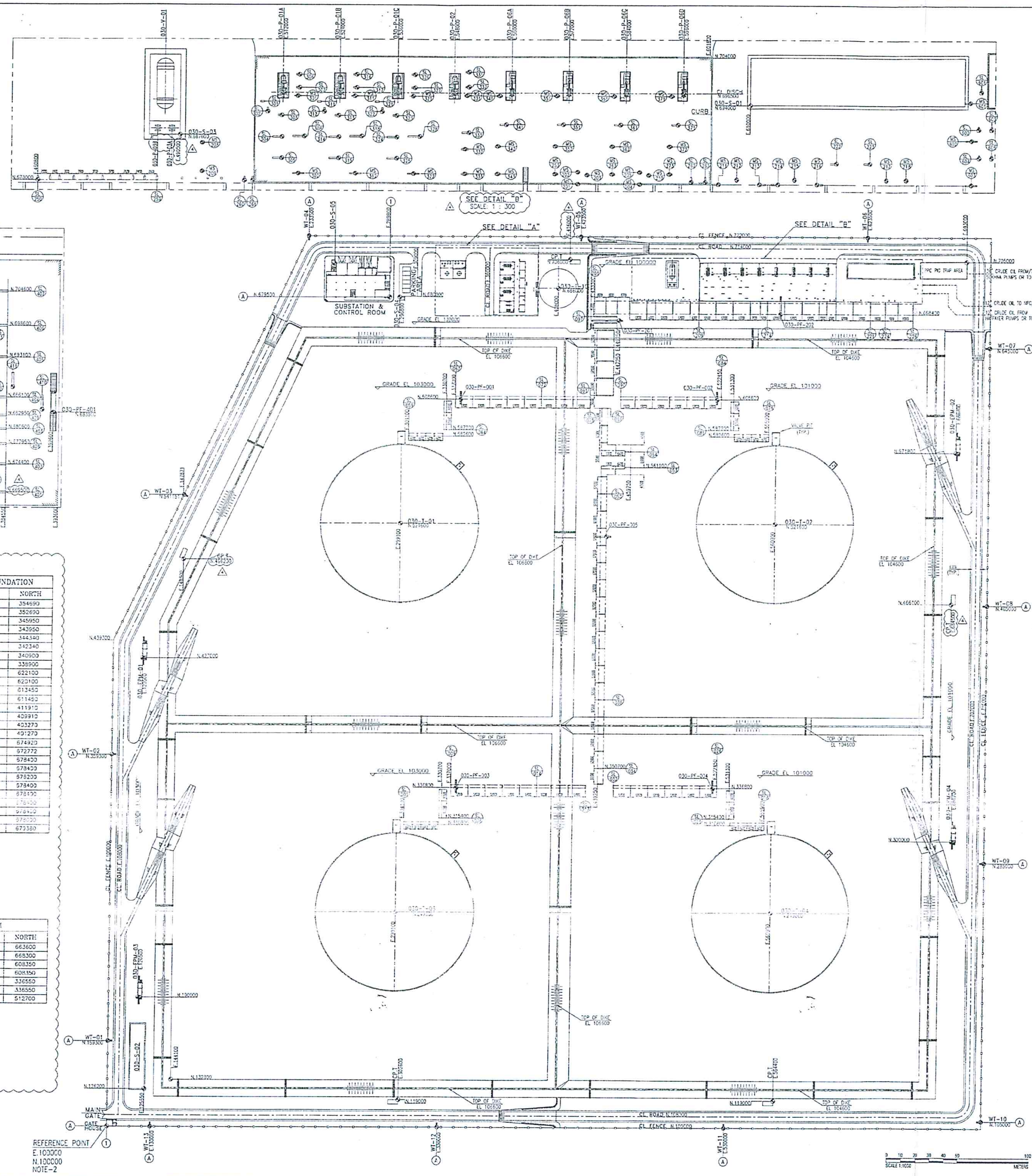
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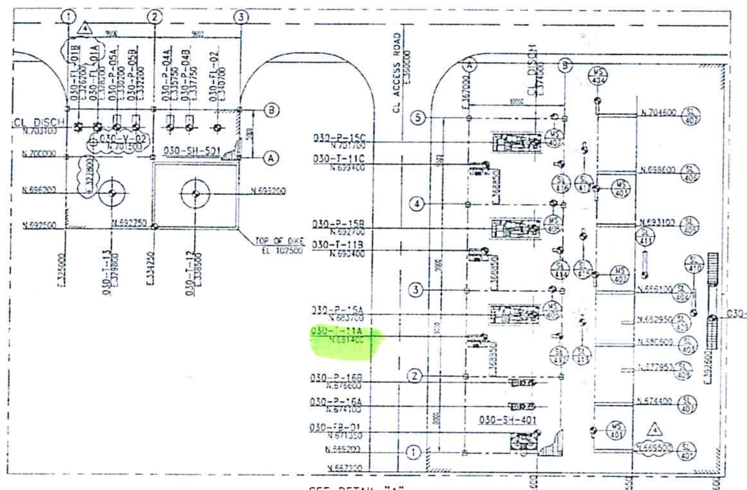
- APPROVED ☑
- NOT APPROVED ☐
- APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME		Abdallah Fathy	
SIGN.	Tarek		M. A. Saleh
DATE			

Civil QC : Mahmoud abdelaziz





SEE DETAIL "A"
SCALE: 1 : 250

PIPE SLEEPERS		
SL NO.	EAST	NORTH
SL-222	628150	681800
SL-223	635150	681800
SL-260	504050	678000
SL-261	505750	678000
SL-262	597700	677850
SL-263	600650	677850
SL-302	508800	692500
SL-303	511800	691700
SL-304	511850	687150
SL-305	511850	682700
SL-306	515550	700300
SL-307	515550	697550
SL-308	516650	687300
SL-312	520800	692500
SL-313	523800	691700
SL-314	523850	687150
SL-315	523850	682700
SL-316	527550	700300
SL-317	527550	697550
SL-318	528550	687300
SL-322	532300	692500
SL-323	535300	691700
SL-324	535850	687100
SL-325	535850	682700
SL-326	539550	700300
SL-327	539550	697550
SL-328	540650	687300
SL-331	551050	700900
SL-332	551050	697750
SL-333	551100	688150
SL-341	557850	689850
SL-351	569850	689850
SL-361	581850	689850
SL-371	593850	689850
SL-410	390700	684000
SL-411	385600	687900
SL-412	376750	681500
SL-413	379150	682950
SL-414	376750	690500
SL-415	379150	691950
SL-416	376750	699500
SL-417	379150	700950
SL-601	658500	696900
SL-602	658000	689050
SL-603	660700	689050
SL-604	658100	683050
SL-605	660700	683050

MISCELLANEOUS PIPE SUPPORTS		
MS NO.	EAST	NORTH
MS-201	574000	677400
MS-202	574000	679900
MS-203	575900	679300
MS-204	587000	677400
MS-205	587000	679900
MS-208	495240	685900
MS-209	495240	679900
MS-210	588900	679300
MS-211	603450	677400
MS-212	607250	678400
MS-213	612050	677400
MS-214	615900	677400
MS-215	619300	678400
MS-216	624050	677400
MS-217	638500	678400
MS-218	642600	678400
MS-301	515200	695800
MS-302	515400	679500
MS-311	527200	695800
MS-312	527400	679500
MS-321	539200	695800
MS-322	539400	679500
MS-331	550700	695950
MS-332	550300	684700
MS-333	550300	679500
MS-341	557500	695900
MS-342	557200	685300
MS-343	557200	679500
MS-351	569500	695900
MS-352	569200	685300
MS-353	569200	679500
MS-361	581500	695900
MS-362	581200	685300
MS-363	581200	679500
MS-371	593500	695900
MS-372	593200	685300
MS-373	593200	679500
MS-401	380450	671600
MS-402	380450	687900
MS-403	380450	696900
MS-404	380450	706150
MS-405	375950	686400
MS-406	375950	695400
MS-407	375950	704400
MS-601	656200	694650
MS-602	656500	686700
MS-603	656500	677400

CONCRETE FOUNDATION		
CF NO.	EAST	NORTH
CF-401	691270	354690
CF-402	691270	352690
CF-403	691270	345950
CF-404	691270	343950
CF-405	120790	344340
CF-406	120790	342340
CF-407	120790	340900
CF-408	120790	338900
CF-409	691270	622100
CF-410	691270	620100
CF-411	691270	613450
CF-412	691270	611450
CF-413	120790	411910
CF-414	120790	409910
CF-415	120790	403270
CF-416	120790	401270
CF-417	235500	674920
CF-419	234545	672772
CF-420	452630	678400
CF-422	450280	678400
CF-201	550700	676200
CF-202	499300	678400
CF-203	496450	678400
CF-204	493900	678400
CF-205	491000	678400
CF-206	457500	678000
CF-208	457500	673380

PLATFORM		
PF NO.	EAST	NORTH
PF-201	450750	663600
PF-202	563000	668300
PF-001	340550	608350
PF-002	519450	608350
PF-003	340550	336550
PF-004	519450	336550
PF-005	443500	512700

REFERENCES	
DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KPP-001	OVERALL SITE PLAN
01251-100-030-AEL-01	PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01	PROCESS FLOW DIAGRAM

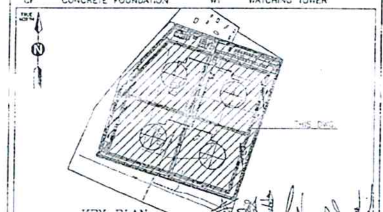
NOTES

1- ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PLANT COORDINATES N 100000 MM & E 100000 MM ARE EQUIVALENT TO UTM SYSTEM N 3326453000 & E 440751000 REFERENCED FROM CONSTRUCTION CONTRACTOR (PETROJET CO.) SURVEY DRAWINGS.
3- HPFS ELEVATION 100000 IS EQUIVALENT TO TRUE ELEVATION 117000 ABOVE MEAN SEA LEVEL
4- ALL SLEEPERS AND MISCELLANEOUS SUPPORT ARE PREFIXED WITH AREA NUMBER (030).
5- WATCHING TOWER COLUMN CENTERLINE ON SAME FENCE CENTERLINE.
6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED.
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT.

EQUIPMENT LIST		
EQUIP. NO.	DESCRIPTION	ELEVATION REFERENCE
ELECTRICAL EQUIPMENT		
030-EPM-01 / 03	ELECTRICAL POWER MODULE	TOC EL 104500
030-EPM-02 / 04	ELECTRICAL POWER MODULE	TOC EL 102500
FILTERS		
030-FL-01A/B	POTABLE/UTILITIES WATER FILTERS	TOC EL 102200
030-FL-02	DIESEL OIL FILTER	TOC EL 102200
MIXERS		
030-MX-01A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-01) MIXER	-
030-MX-02A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-02) MIXER	-
030-MX-03A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-03) MIXER	-
030-MX-04A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-04) MIXER	-
PACKAGES		
030-FB-01	FOAM BLADDER SKID	TOC EL 102200
PUMPS		
030-P-01A/B/C	CRUDE OIL BOOSTER PUMPS	TOC EL 100200
030-P-02	CRUDE OIL MEDIUM DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-06A/B/C/D	CRUDE OIL HIGH DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-03A/B	CLOSED DRAIN PUMPS	TOC EL 100200
030-P-04A/B	DIESEL OIL TRANSFER PUMPS	TOC EL 102175
030-P-05A/B	POTABLE/UTILITIES WATER FEED PUMPS	TOC EL 102150
030-P-15A/B/C	DIESEL FIRE WATER PUMPS	TOC EL 102200
030-P-16A/B	FIRE WATER JOCKEY PUMPS	TOC EL 102200
SUMPS		
030-S-01	OPEN DRAIN SUMP	TOC EL 100200
030-S-02	OPEN DRAIN SUMP	TOC EL 103200
030-S-03	CLOSED DRAIN SUMP	TOC EL 100200
030-S-04	SANITARY SEWAGE COLLECTION SUMP	TOC EL 102200
030-S-05	TRANSFORMERS OIL COLLECTING SUMP	TOC EL 102200
TANKS		
030-T-01/03	CRUDE OIL STORAGE TANK	TOC EL 103600
030-T-02/04	CRUDE OIL STORAGE TANK	TOC EL 101600
030-T-10	FIRE WATER TANK	TOC EL 102500
030-T-11A/B/C	FIRE WATER PUMPS DIESEL TANKS	TOC EL 102800
030-T-12	DIESEL TANK	TOC EL 102600
030-T-13	POTABLE/UTILITIES WATER STORAGE TANK	TOC EL 102500
VESSELS		
030-V-01	CLOSED DRAIN DRUM	TOC EL 92400
030-V-02	POTABLE/UTILITIES WATER SUPPLY VESSEL	TOC EL 102500

LEGEND

Symbol	Meaning	Abbr.	Meaning
	CONCRETE PAVING LIMITS	CB	CONCRETE BLOCK SUPPORT
	EXISTING FACILITIES	CL	CENTER LINE
	GRATING	CP.T	CATHODIC PROTECTION TRANSFORMER
	MATCH LINE	DISCH	PUMP DISCHARGE NOZZLE
	NEW FACILITIES	EL	ELEVATION
	MAINTENANCE ACCESS/ DROP AREA	FOF	FACE OF FLANGE
	REFERENCE POINT	FS	FIXED SADDLE
	GRADE SLOPE	HPFP	HIGH POINT OF FINISHED PAVING
	ROAD SLOPE	MS	MISCELLANEOUS SUPPORT
	PRECAST CONCRETE FENCE	PF	PLATFORM
TOC	TOP OF CONCRETE	SH	SUN SHADE
TOS	TOP OF STEEL	SL	SLEEPER
CF	CONCRETE FOUNDATION	WT	WATCHING TOWER



KEY PLAN

REV	DATE	DESCRIPTION	PROCESS	LOSS PREV	INSTRUMENT	ELECTRICAL	CIVIL\OFFSHORE	MECHANICAL	CONST.SUP.	PIPING	DEPT.MGR	DIV.G.MGR	PEM
4	AUG 17 2020	REISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
3	MAR 08 2020	ISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
2	NOV 14 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
1	OCT 15 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
0	SEP 19 2019	ISSUED FOR DESIGN	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.

EGPC

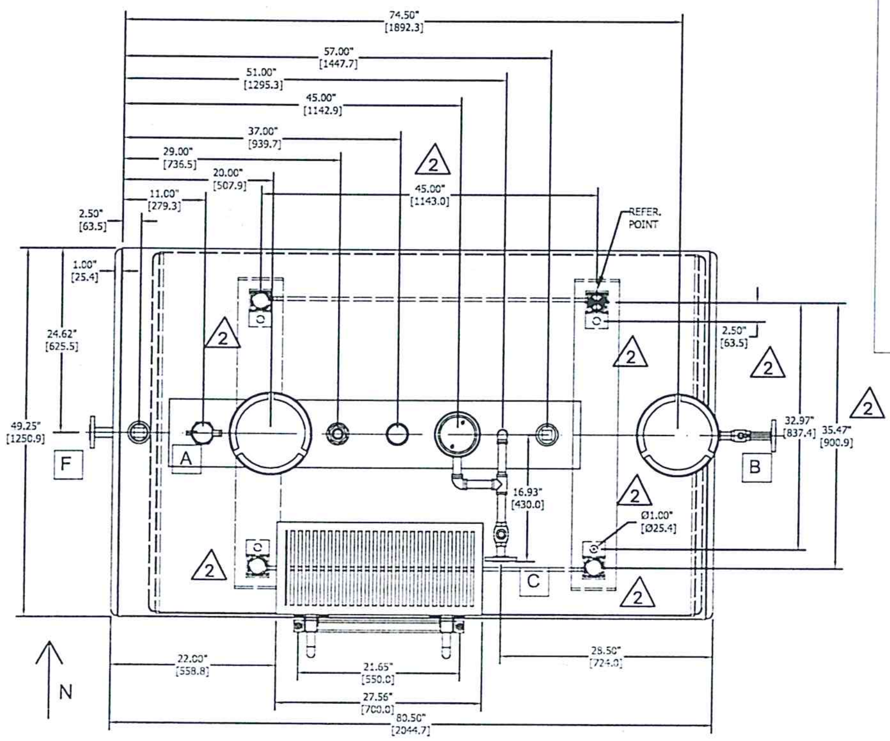
COMPANY PROJ. No. : N/A
ENPPI PROJ. No. : 01251-100
FOR : EGPC
AT : AGROOD, SUZE
لاجل الهيئة المصرية العامة للبترول
الموقع عجرود السويس

CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

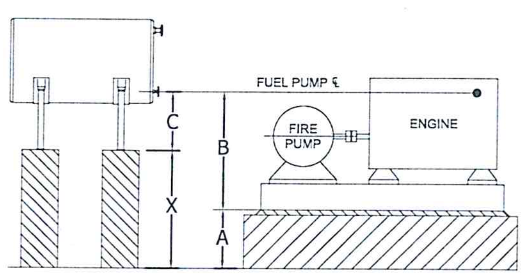
SCALE	ENPPI DRAWING NUMBER	SHEET	REVISION
1:1000	01251-100-030-KPP-002	01/01	4

A0 SIZE: 1189 X 841



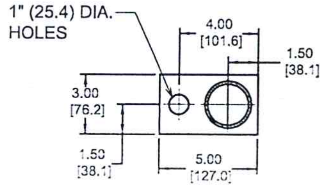
FUEL SUPPLY VALVE ELEVATION CALCULATION

Per NFPA-20 the fuel supply valve shall have the same elevation as the engine's fuel pump.



A : ELEVATION OF FOUNDATION (200 mm).
B : ELEVATION FROM BOTTOM OF SKID TO FUEL PUMP CENTERLINE (1166 mm)
C : FUEL SUPPLY NOZZLE HEIGHT FROM BOTTOM OF TANK LEGS (588 mm)

X = A + B - C ≥ 778 mm, final 800.0mm

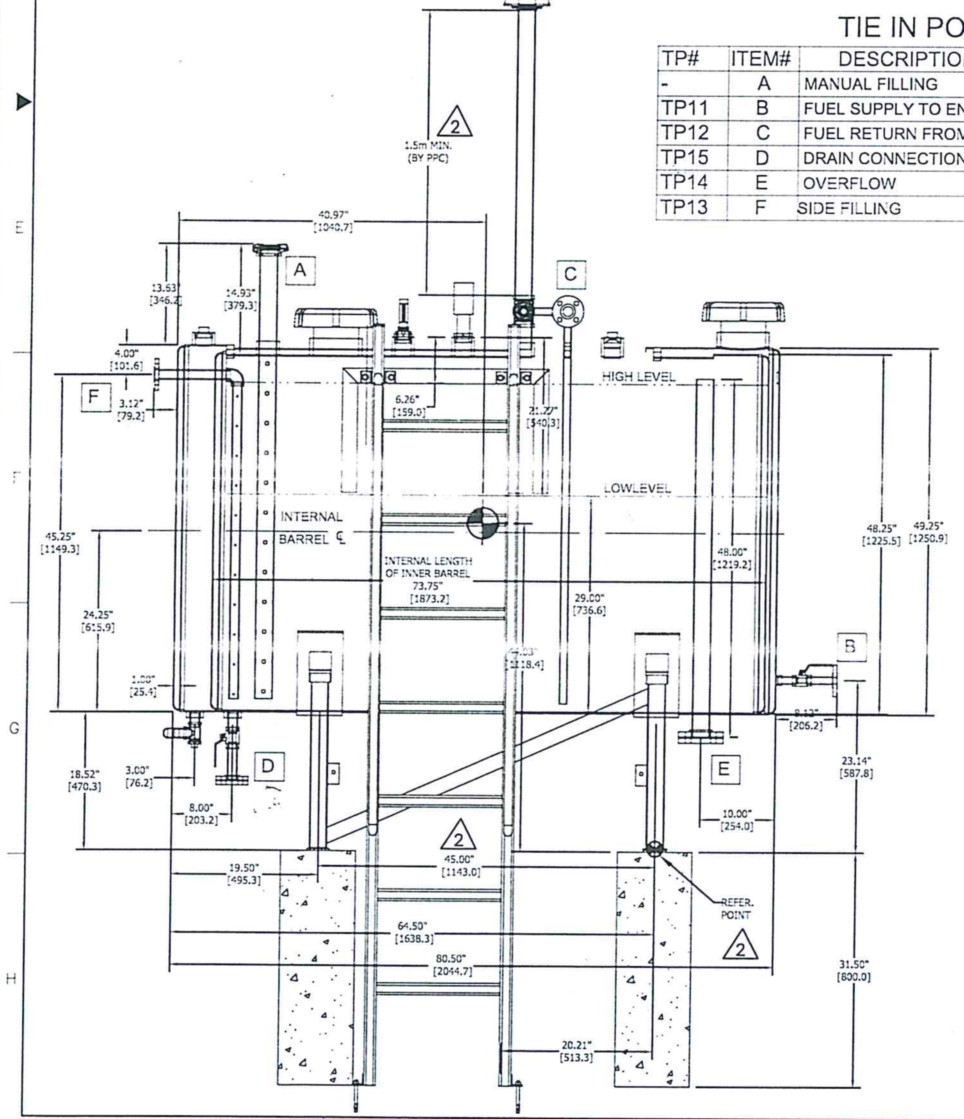


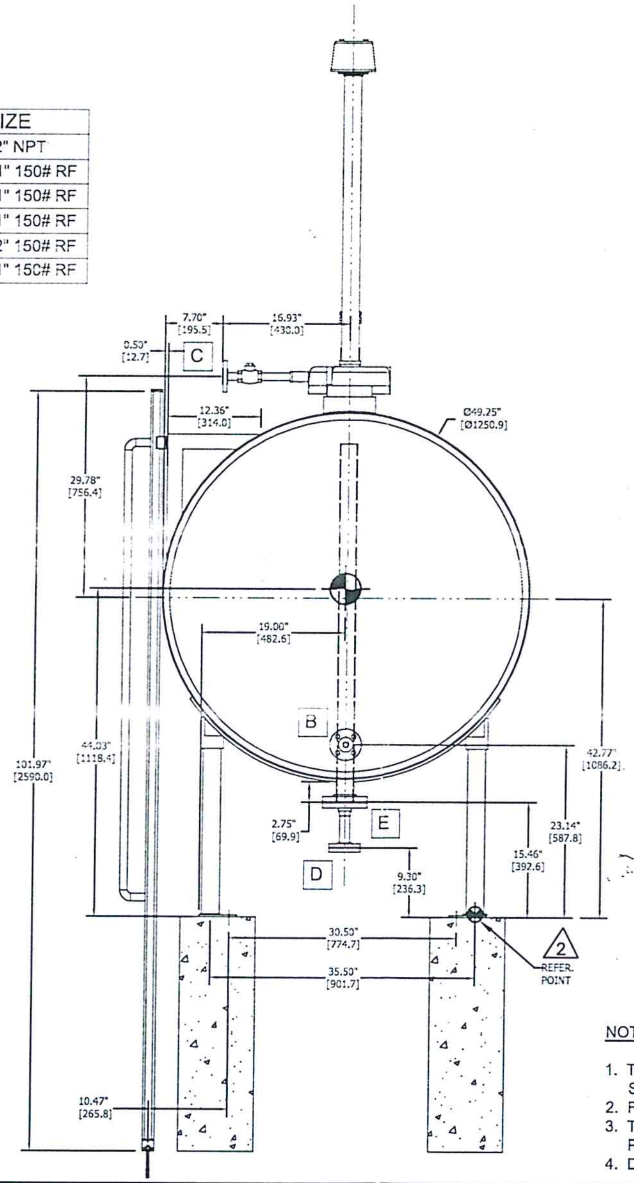
FOOTPLATE DETAIL

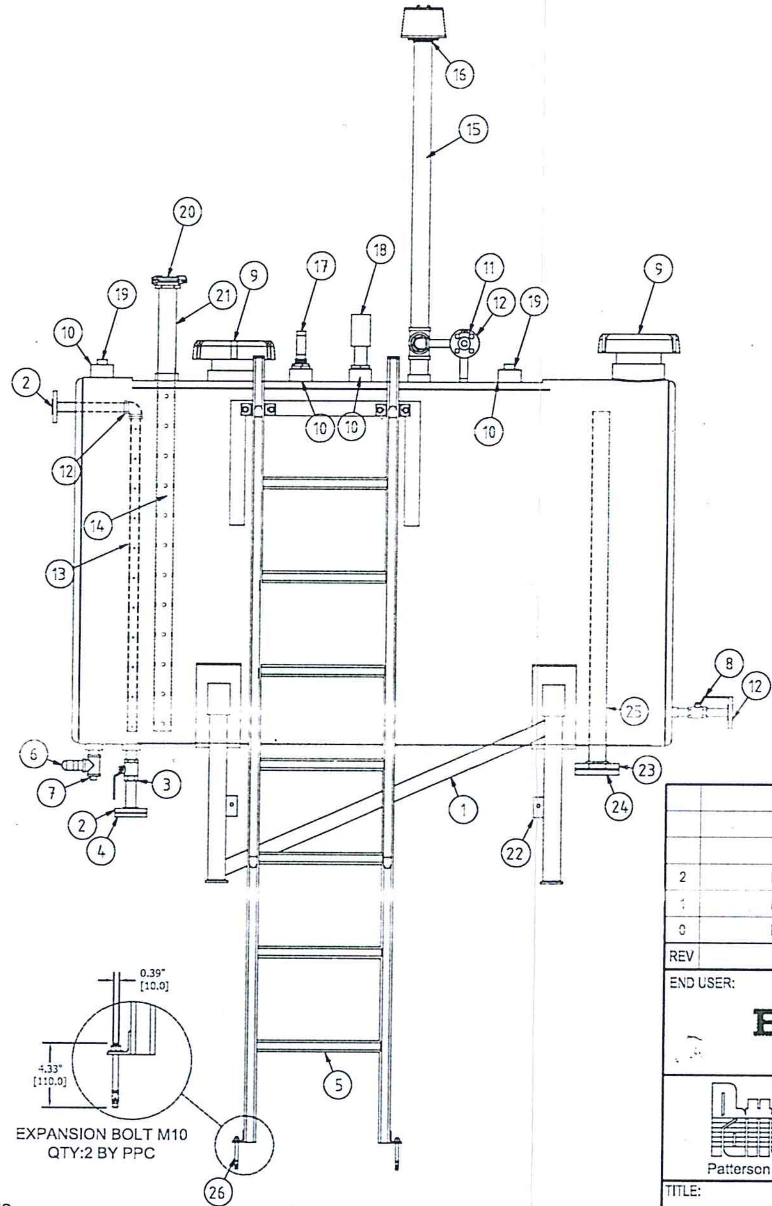
Item Number	DESCRIPTION	Quantity	Material
1	FUEL TANK BODY 3.2mm THICK	1	ASTM A36
2	FLG 1" 150# RF	2	ASTM A105N
3	BALL VALVE 1" NPT	1	BRONZE B62
4	1" 150# RF BLIND	1	ASTM A105N
5	LADDER WITH PLATFORM 700mm	-	ASTM A36
6	LEAK SENSOR 1" NPT	1	POLYPROPYLENE
7	1" PLUG	1	ASTM A234
8	3/4" NPT BALL VALVE	1	BRONZE B62
9	EMERGENCY VENT 6" NPTM	2	CAST IRON ASTM A644
10	2" COUPLING	4	ASTM A234
11	3/4" NPT CHECK VALVE	1	BRONZE B62
12	1" 150# RF drilled with 3/4" npt hole	2	ASTM A105N
13	1" PIPE PERFORATED 42" LONG	1	ASTM A53
14	2" PIPE PERFORATED 48" LONG	1	ASTM A53
15	2" NPT PIPE , 1.5m LONG MINIMUM BY PPC (2)	1	ALUMINUM
16	WEATHER VENT. 2" FNPT (flame arrestor)	1	ALUMINUM
17	LEVEL GAUGE 1.5" NPTM	1	ALUMINIUM
18	LEVEL SWITCH 1.25" NPTM	1	ALUMINIUM
19	2" NPTM PLUG	1	ASTM A234
20	2" CAP WITH PADLOCK	1	CAR. STEEL
21	2" PIPE , 12" LONG (WITH STRAINER IN SS)	1	ASTM A53
22	EARTHING PLATE DIAGONALLY	2	316 SS
23	2" 150# RF	1	ASTM A105N
24	2" 150# RF BLIND	1	ASTM A105N
25	2" PIPE , 48" LONG	1	ASTM A53
26	M10x110 EXPANSION BOLT FOR LADDER	2	GALV. STEEL

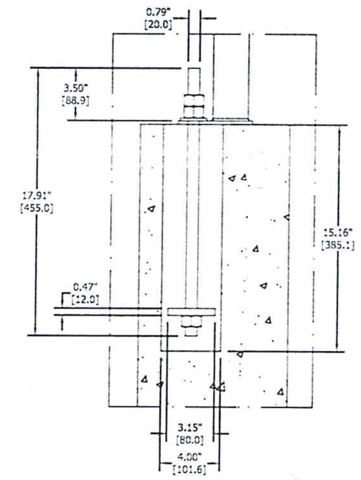
TIE IN POINT LIST

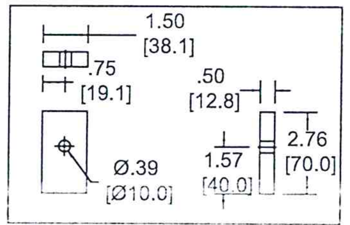
TP#	ITEM#	DESCRIPTION	SIZE
-	A	MANUAL FILLING	2" NPT
TP11	B	FUEL SUPPLY TO ENGINE	1" 150# RF
TP12	C	FUEL RETURN FROM ENGINE	1" 150# RF
TP15	D	DRAIN CONNECTION	1" 150# RF
TP14	E	OVERFLOW	2" 150# RF
TP13	F	SIDE FILLING	1" 150# RF











NOTES

1. THE DESIGN DATA FOR THE DAY TANK SHALL BE SPECIFIED BY NFPA20 AND UL 142.
2. Fuel Tank inner / outlet thickness: 5.0 mm
3. Temperature Design / Operating: 85 °C / 60 °C
   Pressure Design / Operating: 1.0 Barg / Atm.
4. DYNAMIC LOADS ARE NEGLIGIBLE.

Capacity: 550 gallon
WEIGHT EMPTY = 564.0 kg
WEIGHT FULL = 2328.0 kg

REV	DESCRIPTION	DWRN	CHK'D	APP'D	DATE
2	ISSUED FOR APPROVAL	GN	AG	AG	15-APR-2020
1	ISSUED FOR APPROVAL	GN	AG	AG	24-MAR-2020
0	ISSUED FOR APPROVAL	GN	AG	AG	26-FEB-2020

END USER: Enppi

PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5
SEQ. NO. : D01
JOB NO. : EGQ-7414
DWG SIZE:
SCALE :

Patterson Pump Company

TITLE: Diesel Fuel Tank Drawing 550 Gallon Double Wall

DWG NO.: ATH-FT550DW-200226 | SHT: 1/1 | REV: 2

30-LP-10

PETROJET | Enppi | بتروجت

REQUEST FOR INSPECTION
RFI

EGPC | Petroleum Pipelines Company | شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)

Date: 5 / 4 / 2021

010 5

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation		
2	☐ Structure	6	☐ Instrument	10	☐ HVAC		
3	☐ Electrical	7	☑ Survey	11	☐ General		
4	☑ Mechanical	8	☐ Architecture	12	☐ Other		

Description of work that requires to be inspected

Elevation check for: 030-T-11B
Diesel Fuel Tank

Time :

Date 5 /4 / 2021

Reference Documents # :

Mech. DWG. No. ATH-FT550-DW-20022.6
Plot Plan No. 01251-100-030-KPP-002
Survey Report for elevation

CONTRACTOR Comment:

Release for Grout

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif Mostafa	Abdallah Fathy	Mohamed Abdul Sadek
Sign.	Tarek	AF	
Date			M. A. Sadek

Civil QC: Mahmoud abdelaziz

EGPC / Petroleum Pipelines Company	CRUDE OIL TANK FARM PROJECT (AGROOD AREA)	PETROJET / Enppi
Project :	**INSPECTION SURVEYING REPORT**	

RIT No : ______ Report No : ______ Area : 030

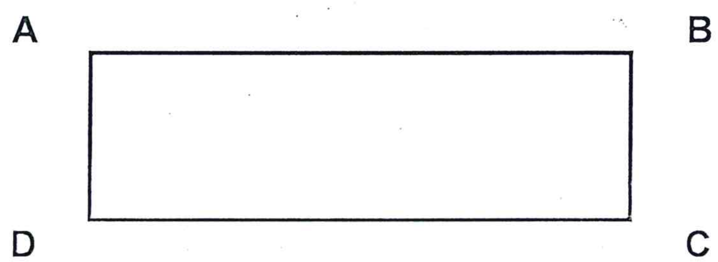
STRUCTURE / ELEMENT : 030 - T - 11 B   DESCRIPTION : Diesel Fuel Tank

DWG : ATH - ST 550 DW - 200226   Rev : ______ Status : ______

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Section				

NO	THIORITICAL	ACTUAL	
A	102.831	102.831	0
B	102.831	102.830	-1
C	102.831	102.831	0
D	102.831	102.832	+1



REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

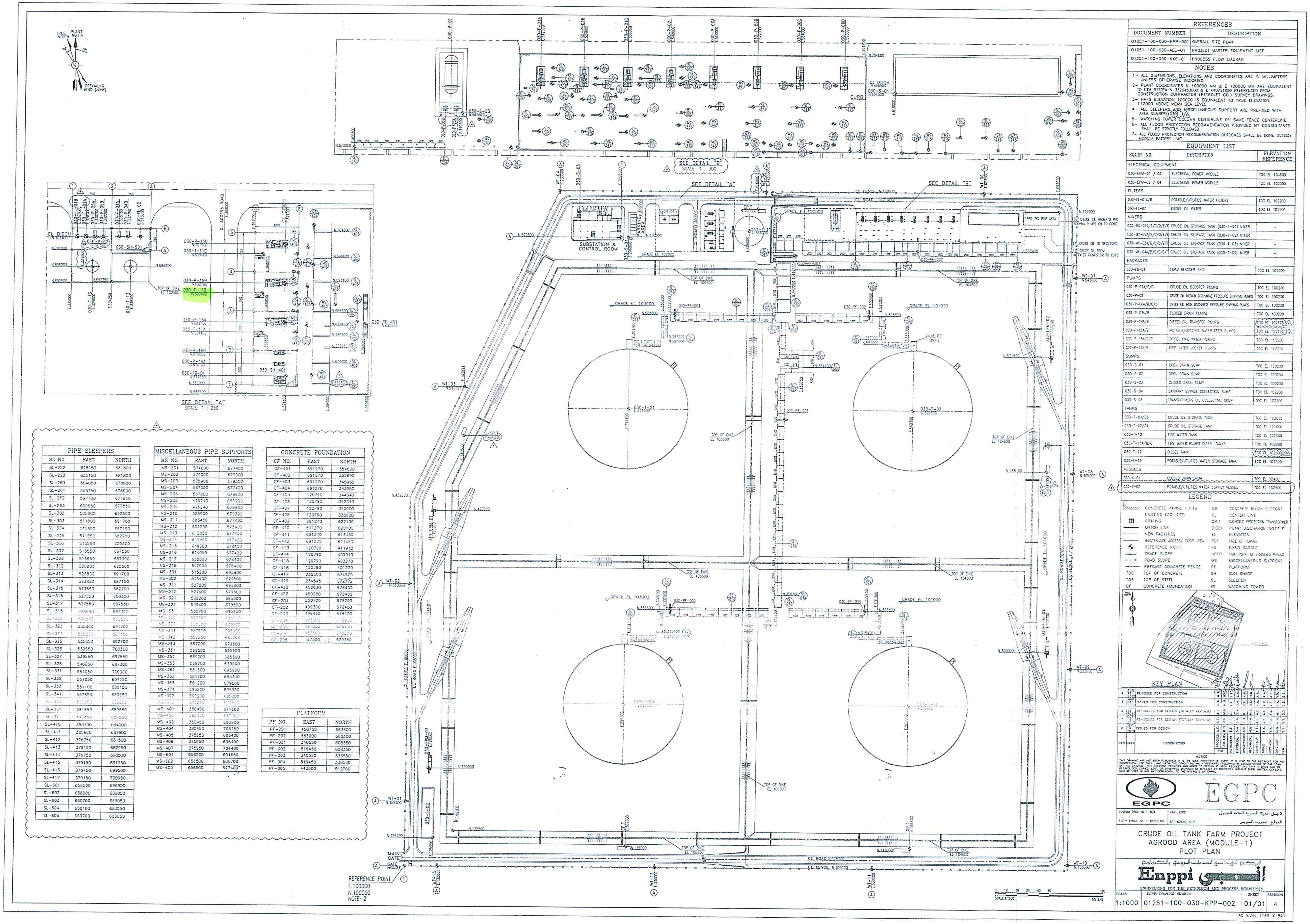
INSPECTION RESULTS :

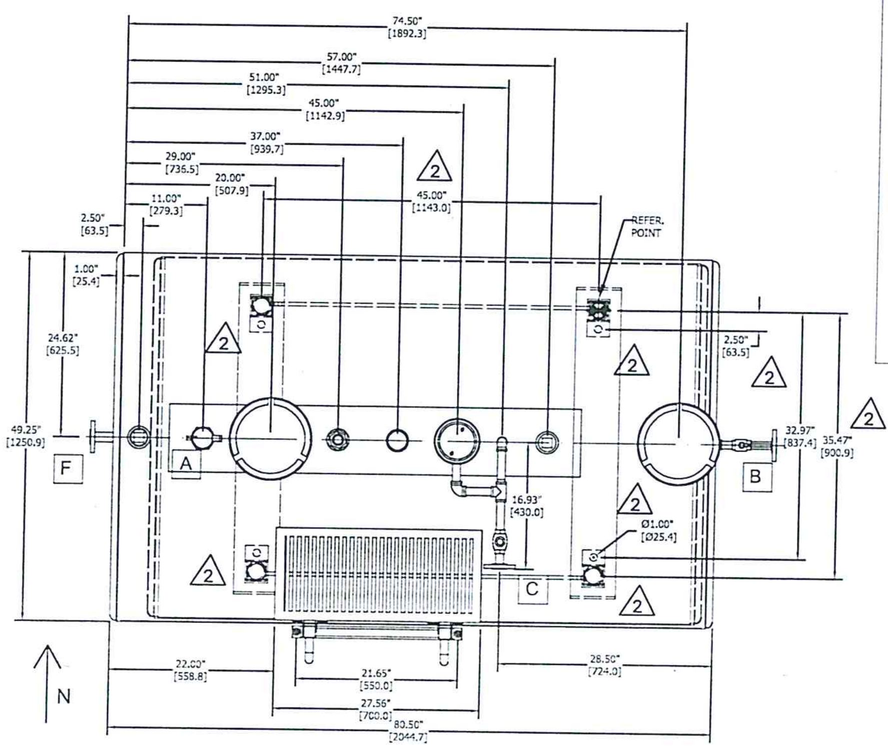
- APPROVED ☑
- NOT APPROVED ☐
- APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME		Jamah Fathy	M. A. Saeed
SIGN.			
DATE			

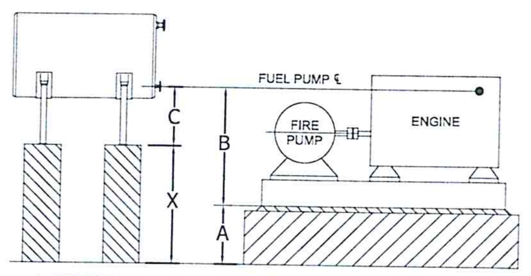
civil QC: Mahmoud abdelaziz


REFERENCES
DOCUMENT NUMBER | DESCRIPTION
01251-100-030-KFP-001 OVERALL SITE PLAN
01251-100-030-AEL-01 PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01 PROCESS FLOW DIAGRAM
NOTES
1- ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PLANT COORDINATES N 100000 MM & E 100000 MM ARE EQUIVALENT TO UTM SYSTEM N 3326453000 & E 440751000 REFERENCED FROM CONSTRUCTION CONTRACTOR (PETROJET CO.) SURVEY DRAWINGS.
3- HFFS ELEVATION 100000 IS EQUIVALENT TO TRUE ELEVATION 117000 ABOVE MEAN SEA LEVEL
4- ALL SLEEPERS AND MISCELLANEOUS SUPPORT ARE PREFIXED WITH AREA NUMBER (030).
5- WATCHING TOWER COLUMN CENTERLINE ON SAME FENCE CENTERLINE.
6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED.
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT.
EQUIPMENT LIST
EQUIP. NO. | DESCRIPTION | ELEVATION REFERENCE
ELECTRICAL EQUIPMENT
030-EPM-01 / 03 ELECTRICAL POWER MODULE TOC EL 104500
030-EPM-02 / 04 ELECTRICAL POWER MODULE TOC EL 102500
FILTERS
PIPE SLEEPERS
MISCELLANEOUS PIPE SUPPORTS
CONCRETE FOUNDATION
PLATFORM
LEGEND
KEY PLAN
SEE DETAIL "A"
SEE DETAIL "B"
SUBSTATION & CONTROL ROOM
REFERENCE POINT
E.100000
N.100000
NOTE-2
MAIN GATE
EGPC
COMPANY PROJ. No. : N/A
ENPPI PROJ. No. : 01251-100
FOR : EGPC
AT : AGROOD, SUZE
لاجل الهيئة المصرية العامة للبترول
الموقع عجرود السويس
CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES
SCALE 1:1000
ENPPI DRAWING NUMBER 01251-100-030-KPP-002
SHEET 01/01
REVISION 4
A0 SIZE: 1189 X 841



FUEL SUPPLY VALVE ELEVATION CALCULATION

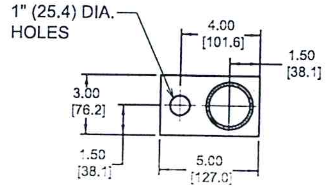
Per NFPA-20 the fuel supply valve shall have the same elevation as the engine's fuel pump.



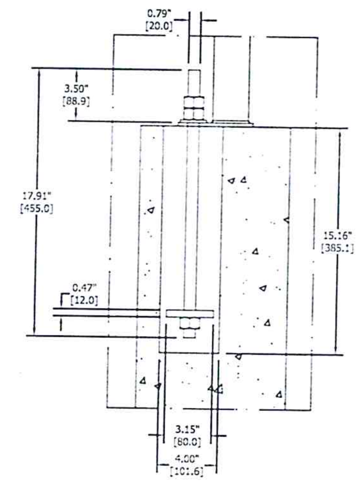
A : ELEVATION OF FOUNDATION (200 mm).
B : ELEVATION FROM BOTTOM OF SKID TO FUEL PUMP CENTERLINE (1166 mm)
C : FUEL SUPPLY NOZZLE HEIGHT FROM BOTTOM OF TANK LEGS (568 mm)

X = A + B - C ≥ 778 mm, final 800.0mm

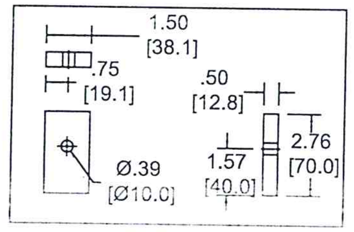
Item Number	DESCRIPTION	Quantity	Material	Item Number	DESCRIPTION	Quantity	Material
1	FUEL TANK BODY 3.2mm THICK	1	ASTM A36	15	2" NPT PIPE , 1.5m LONG MINIMUM BY PPC (2)	1	ALUMINUM
2	FLG 1" 150# RF	2	ASTM A105N	16	WEATHER VENT. 2" FNPT (flame arrestor)	1	ALUMINUM
3	BALL VALVE 1" NPT	1	BRONZE B62	17	LEVEL GAUGE 1.5" NPTM	1	ALUMINIUM
4	1" 150# RF BLIND	1	ASTM A105N	18	LEVEL SWITCH 1.25" NPTM	1	ALUMINIUM
5	LADDER WITH PLATFORM 700mm	-	ASTM A36	19	2" NPTM PLUG	1	ASTM A234
6	LEAK SENSOR 1" NPT	1	POLYPROPYLENE	20	2" CAP WITH PADLOCK	1	CAR. STEEL
7	1" PLUG	1	ASTM A234	21	2" PIPE , 12" LONG (WITH STRAINER IN SS)	1	ASTM A53
8	3/4" NPT BALL VALVE	1	BRONZE B62	22	EARTHING PLATE DIAGONALLY	2	316 SS
9	EMERGENCY VENT 6" NPTM	2	CAST IRON ASTM A644	23	2" 150# RF	1	ASTM A105N
10	2" COUPLING	4	ASTM A234	24	2" 150# RF BLIND	1	ASTM A105N
11	3/4" NPT CHECK VALVE	1	BRONZE B62	25	2" PIPE , 48" LONG	1	ASTM A53
12	1" 150# RF drilled with 3/4" npt hole	2	ASTM A105N	26	M10x110 EXPANSION BOLT FOR LADDER	2	GALV. STEEL
13	1" PIPE PERFORATED 42" LONG	1	ASTM A53				
14	2" PIPE PERFORATED 48" LONG	1	ASTM A53				



FOOTPLATE DETAIL

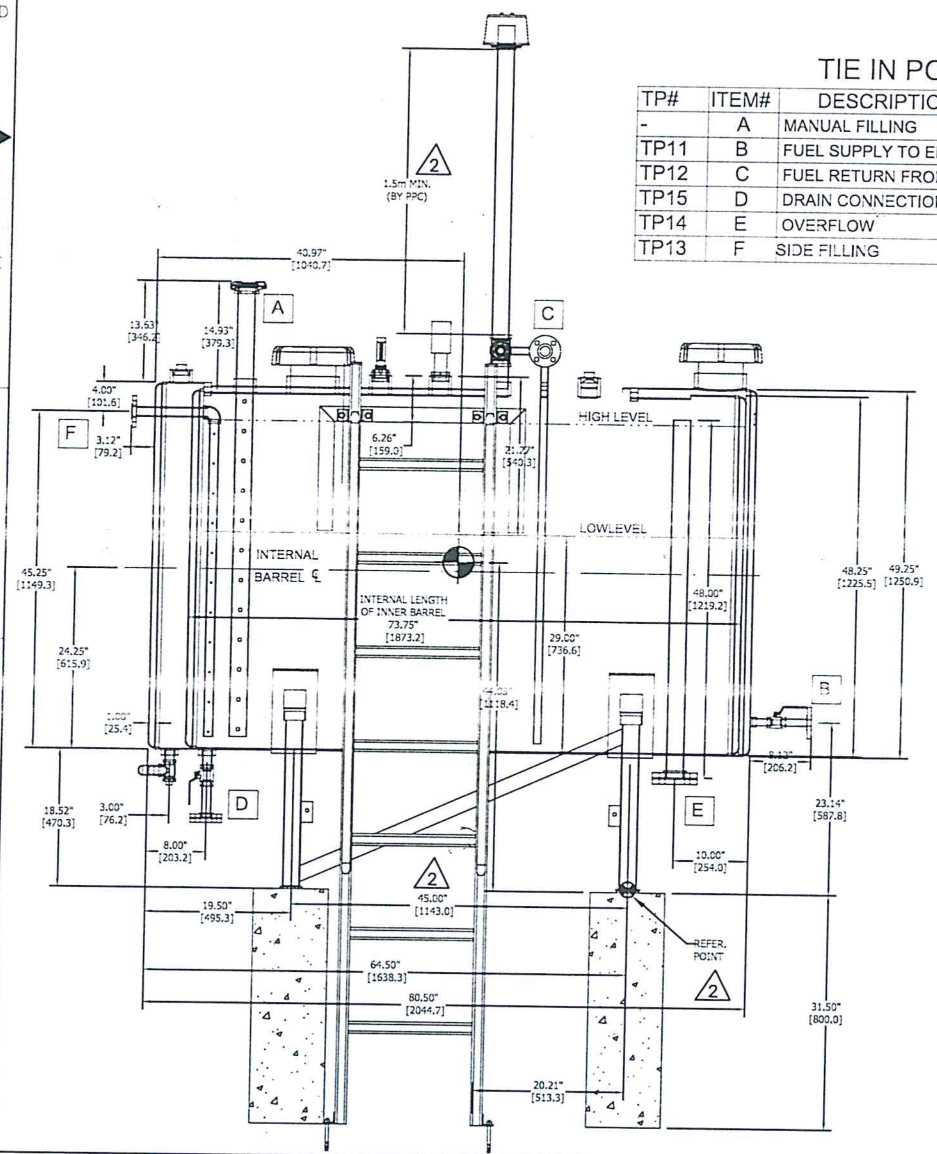


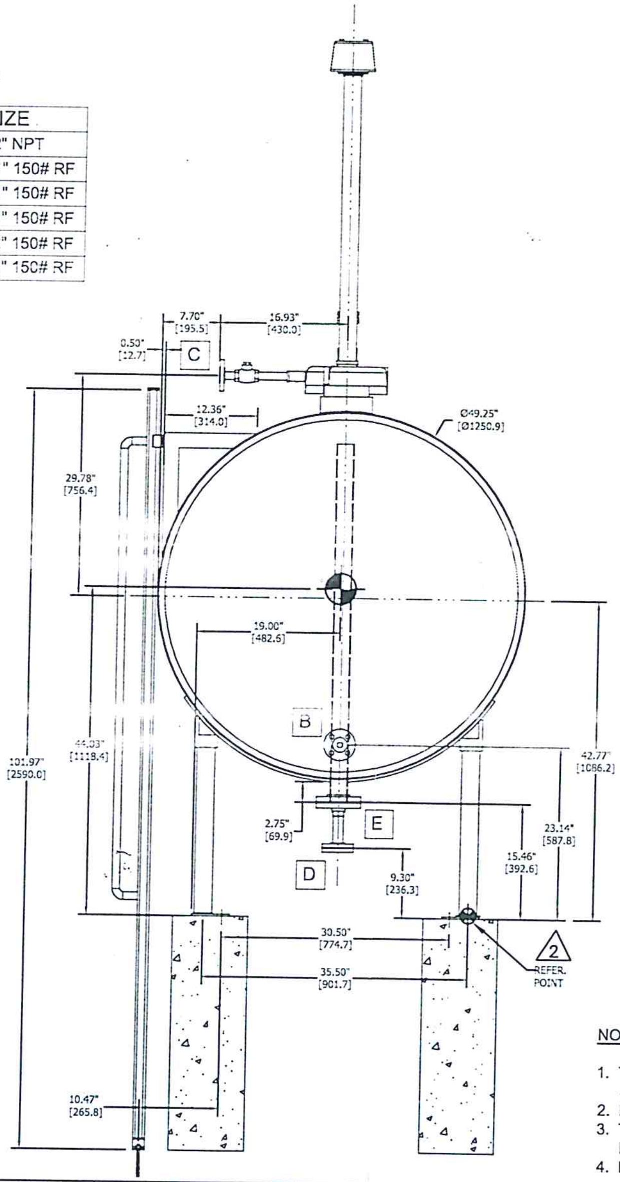
ANCHOR BOLT M20
QTY:4 BY PPC

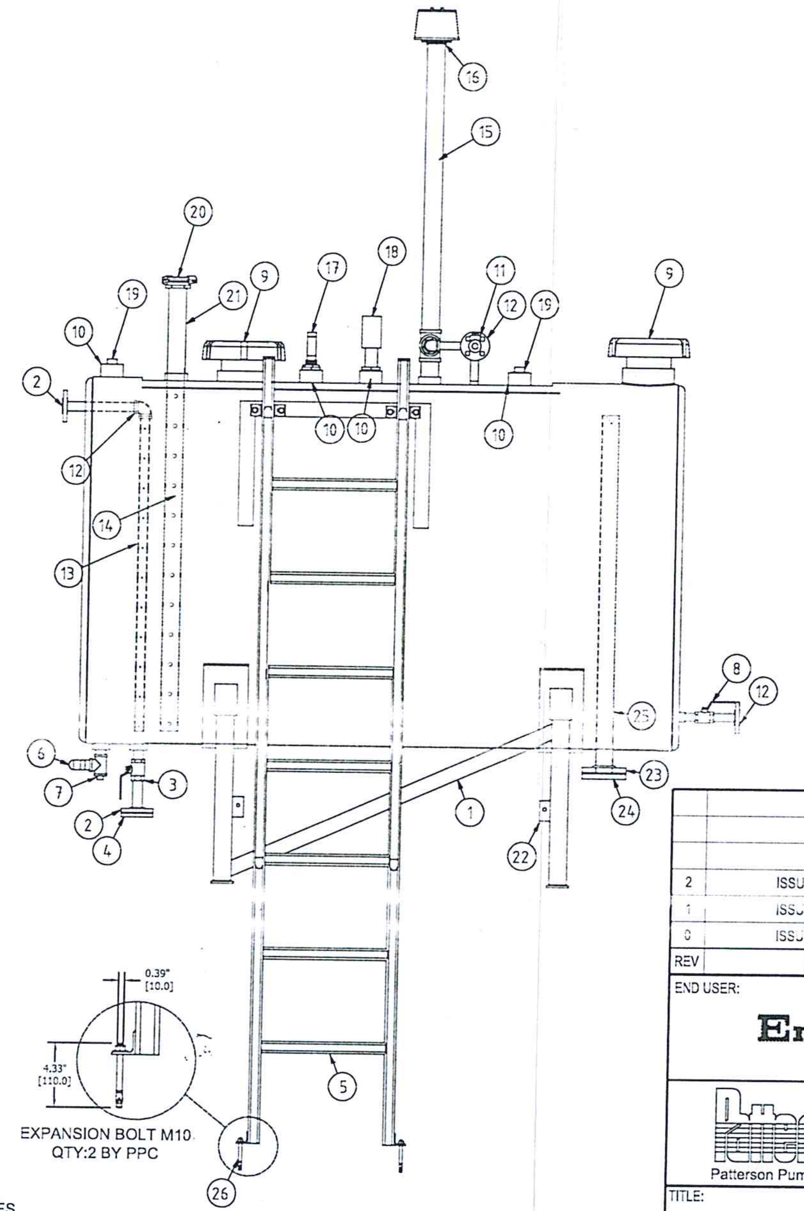


TIE IN POINT LIST

TP#	ITEM#	DESCRIPTION	SIZE
-	A	MANUAL FILLING	2" NPT
TP11	B	FUEL SUPPLY TO ENGINE	1" 150# RF
TP12	C	FUEL RETURN FROM ENGINE	1" 150# RF
TP15	D	DRAIN CONNECTION	1" 150# RF
TP14	E	OVERFLOW	2" 150# RF
TP13	F	SIDE FILLING	1" 150# RF







EXPANSION BOLT M10
QTY:2 BY PPC

NOTES

1. THE DESIGN DATA FOR THE DAY TANK SHALL BE SPECIFIED BY NFPA20 AND UL 142.
2. Fuel Tank inner / outlet thickness: 5.0 mm
3. Temperature Design / Operating: 85 °C / 60 °C
   Pressure Design / Operating: 1.0 Barg / Atm.
4. DYNAMIC LOADS ARE NEGLIGIBLE.

Capacity: 550 gallon

WEIGHT EMPTY = 564.0 kg

WEIGHT FULL = 2328.0 kg

REV	DESCRIPTION	DWRN	CHK'D	APP'D	DATE
2	ISSUED FOR APPROVAL	GN	AG	AG	15-APR-2020
1	ISSUED FOR APPROVAL	GN	AG	AG	24-MAR-2020
0	ISSUED FOR APPROVAL	GN	AG	AG	26-FEB-2020

END USER: Enppi

PROJECT NAME: CRUDE OIL TANK FARM

PO NUMBER: 1251-100-131-06-5

Patterson Pump Company

SEQ. NO. : D01
JOB NO. : EGQ-7414
DWG SIZE:
SCALE :

TITLE: Diesel Fuel Tank Drawing
550 Gallon Double Wall

DWG NO.: ATH-FT550DW-200226 | SHT: 1/1 | REV: 2

30-LP-50

PETROJET Enppi بتروجت

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 5/4/2021

0115

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Elevation check for: 030-T-11C

Diesel Fuel Tank

Time :

Date 5/4/2021

Reference Documents # :

Mechanical Drawing No. ATH-FTSSODW-200226

Plot Plan No. 0125I-100-030-KPP-002

Survey Report for elevation

CONTRACTOR Comment:

Release for Grout.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif Mostafa	Abdallah Fathy	Mohamed Abu Sealla
Sign.	[signature]	[signature]	
Date			[signature]

Civil QC: Mahmoud abdelaziz

EGPC / Petroleum Pipelines Company	CRUDE OIL TANK FARM PROJECT (AGROOD AREA)	PETROJET / Enppi
Project :	**INSPECTION SURVEYING REPORT**	

RIT No : ________ Report No : ________ Area : ________

STRUCTURE / ELEMENT : 030-T-11C DESCRIPTION : Diesel Fuel Tank

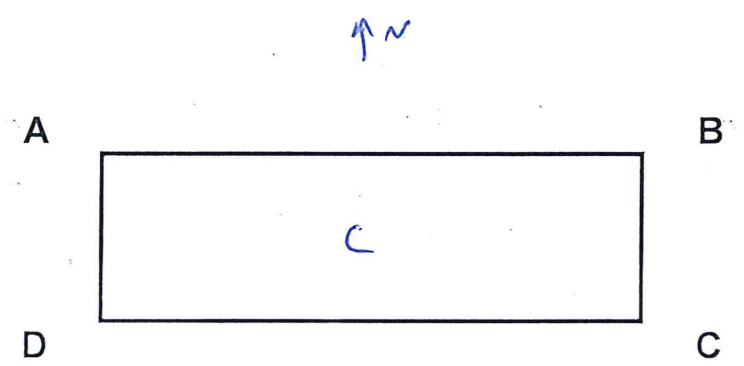
DWG : ATH-FT550DW-20022C Rev : ________ Status : ________

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS

Section

NO	THIORITICAL	ACTUAL	
A	102.831	102.829	-2
B	102.831	102.830	-1
C	102.831	102.830	-1
D	102.831	102.830	-1



REFERENCE SKETCHES AND/OR ATTACHMENTS :

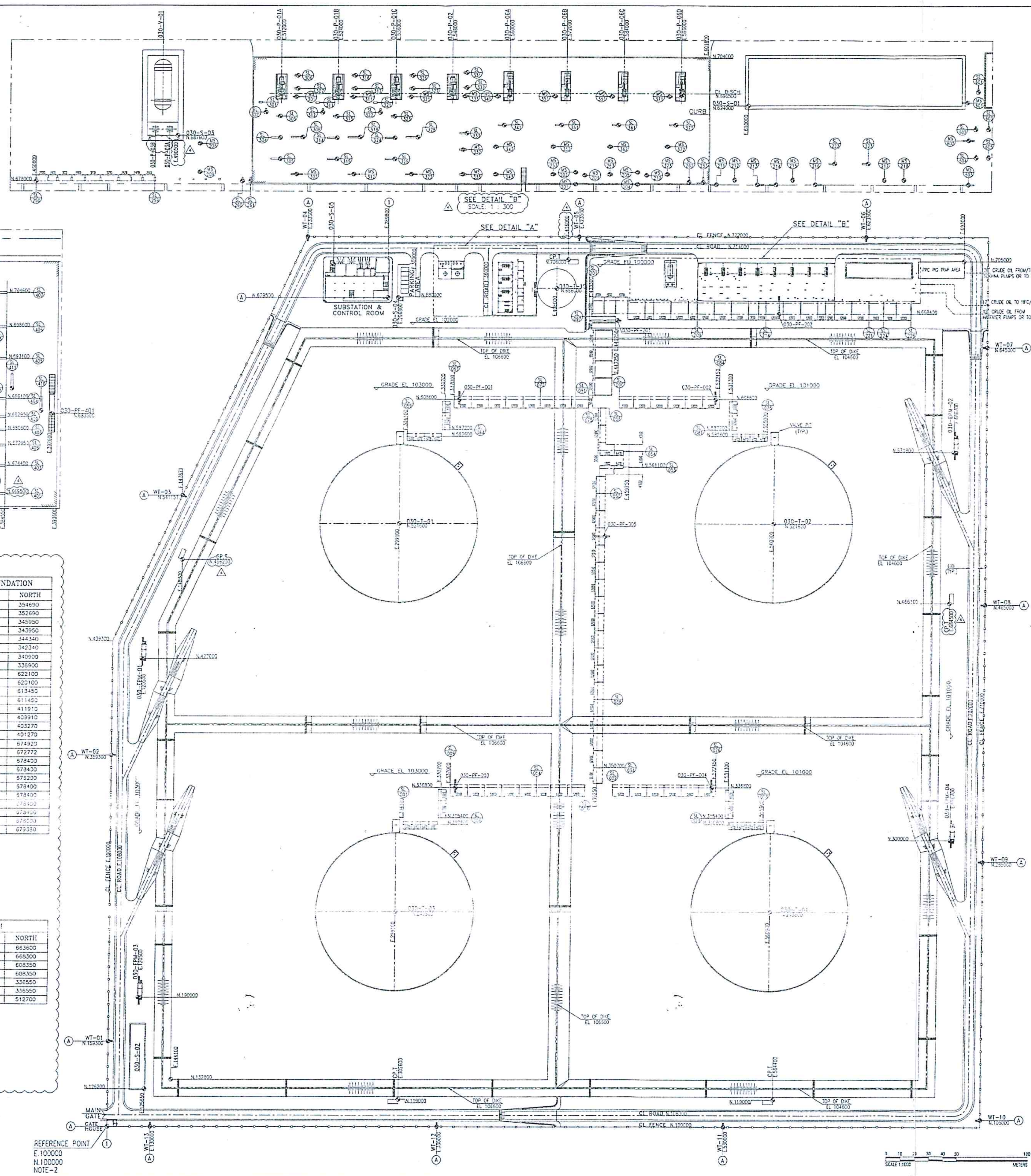
SURVEYOR Name - Signature

INSPECTION RESULTS :

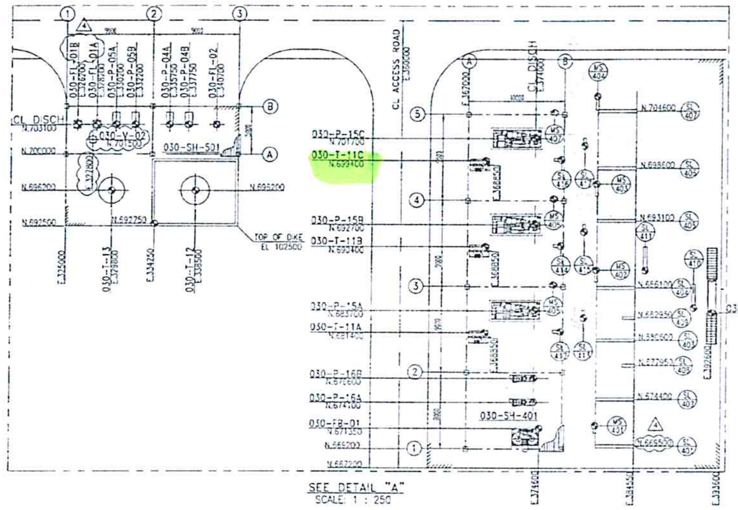
- APPROVED ☐
- NOT APPROVED ☐
- APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME		Abdallah Fathy	
SIGN.	[signature]	[signature]	M. A. Saleh [signature]
DATE			



SEE DETAIL "A"
SCALE: 1 : 250



PIPE SLEEPERS		
SL. NO.	EAST	NORTH
SL-222	628150	681800
SL-223	635150	681800
SL-260	504050	678000
SL-261	505750	678000
SL-262	597700	677850
SL-263	600650	677850
SL-302	508800	692500
SL-303	511800	691700
SL-304	511850	687150
SL-305	511850	682700
SL-306	515550	700300
SL-307	515550	697550
SL-308	516650	687300
SL-312	520800	692500
SL-313	523800	691700
SL-314	523850	687150
SL-315	523850	682700
SL-316	527550	700300
SL-317	527550	697550
SL-318	528550	687300
SL-322	532800	692500
SL-323	535800	691700
SL-324	535850	687150
SL-325	535850	682700
SL-326	539550	700300
SL-327	539550	697550
SL-328	540650	687300
SL-331	551050	700900
SL-332	551050	697750
SL-333	551100	688150
SL-341	557850	689850
SL-351	569850	689850
SL-361	581850	689850
SL-371	593850	689850
SL-410	390700	684000
SL-411	385600	687900
SL-412	376750	681500
SL-413	379150	682950
SL-414	376750	690500
SL-415	379150	691950
SL-416	376750	699500
SL-417	379150	700950
SL-601	658500	696900
SL-602	658000	689050
SL-603	660700	689050
SL-604	658100	683050
SL-605	660700	683050

MISCELLANEOUS PIPE SUPPORTS		
MS NO.	EAST	NORTH
MS-201	574000	677400
MS-202	574000	679900
MS-203	575900	679300
MS-204	587000	677400
MS-205	587000	679900
MS-208	495240	685900
MS-209	495240	679900
MS-210	588900	679300
MS-211	603450	677400
MS-212	607250	678400
MS-213	612050	677400
MS-214	615900	677400
MS-215	619300	678400
MS-216	624050	677400
MS-217	638500	678400
MS-218	642600	678400
MS-301	515200	695800
MS-302	515400	679500
MS-311	527200	695800
MS-312	527400	679500
MS-321	539200	695800
MS-322	539400	679500
MS-331	550700	695950
MS-332	550300	684700
MS-333	550300	679500
MS-341	557500	695900
MS-342	557200	685300
MS-343	557200	679500
MS-351	569500	695900
MS-352	569200	685300
MS-353	569200	679500
MS-361	581500	695900
MS-362	581200	685300
MS-363	581200	679500
MS-371	593500	695900
MS-372	593200	685300
MS-373	593200	679500
MS-401	380450	671600
MS-402	380450	687900
MS-403	380450	696900
MS-404	380450	706150
MS-405	375950	686400
MS-406	375950	695400
MS-407	375950	704400
MS-601	656200	694650
MS-602	656500	686700
MS-603	656500	677400

CONCRETE FOUNDATION		
CF NO.	EAST	NORTH
CF-401	691270	354690
CF-402	691270	352690
CF-403	691270	345950
CF-404	691270	343950
CF-405	120790	344340
CF-406	120790	342340
CF-407	120790	340900
CF-408	120790	338900
CF-409	691270	622100
CF-410	691270	620100
CF-411	691270	613450
CF-412	691270	611450
CF-413	120790	411910
CF-414	120790	409910
CF-415	120790	403270
CF-416	120790	401270
CF-417	235500	674920
CF-419	234545	672772
CF-420	452630	678400
CF-422	450280	678400
CF-201	550700	675200
CF-202	499300	678400
CF-203	496450	678400
CF-204	493900	678400
CF-205	491000	678400
CF-206	457500	678000
CF-208	457500	679380

PLATFORM		
PF NO.	EAST	NORTH
PF-201	450750	663600
PF-202	563000	668300
PF-001	340550	608350
PF-002	519450	608350
PF-003	340550	336550
PF-004	519450	336550
PF-005	443500	512700

REFERENCE POINT
E.100000
N.100000
NOTE-2

REFERENCES	
DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KPP-001	OVERALL SITE PLAN
01251-100-030-AEL-01	PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01	PROCESS FLOW DIAGRAM

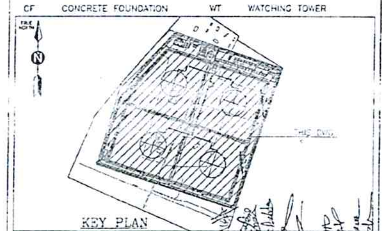
NOTES

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6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED.
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT.

EQUIPMENT LIST		
EQUIP. NO.	DESCRIPTION	ELEVATION REFERENCE
ELECTRICAL EQUIPMENT		
030-EPM-01 / 03	ELECTRICAL POWER MODULE	TOC EL 104500
030-EPM-02 / 04	ELECTRICAL POWER MODULE	TOC EL 102500
FILTERS		
030-FL-01A/B	POTABLE/UTILITIES WATER FILTERS	TOC EL 102200
030-FL-02	DIESEL OIL FILTER	TOC EL 102200
MIXERS		
030-MX-01A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-01) MIXER	-
030-MX-02A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-02) MIXER	-
030-MX-03A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-03) MIXER	-
030-MX-04A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-04) MIXER	-
PACKAGES		
030-FE-01	FOAM BLADDER SKID	TOC EL 102200
PUMPS		
030-P-01A/B/C	CRUDE OIL BOOSTER PUMPS	TOC EL 100200
030-P-02	CRUDE OIL MEDIUM DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-06A/B/C/D	CRUDE OIL HIGH DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-03A/B	CLOSED DRAIN PUMPS	TOC EL 100200
030-P-04A/B	DIESEL OIL TRANSFER PUMPS	TOC EL 102175 △4
030-P-05A/B	POTABLE/UTILITIES WATER FEED PUMPS	TOC EL 102150 △4
030-P-15A/B/C	DIESEL FIRE WATER PUMPS	TOC EL 102200
030-P-16A/B	FIRE WATER JOCKEY PUMPS	TOC EL 102200
SUMPS		
030-S-01	OPEN DRAIN SUMP	TOC EL 100200
030-S-02	OPEN DRAIN SUMP	TOC EL 103200
030-S-03	CLOSED DRAIN SUMP	TOC EL 100200
030-S-04	SANITARY SEWAGE COLLECTION SUMP	TOC EL 102200
030-S-05	TRANSFORMERS OIL COLLECTING SUMP	TOC EL 102200
TANKS		
030-T-01/03	CRUDE OIL STORAGE TANK	TOC EL 103600
030-T-02/04	CRUDE OIL STORAGE TANK	TOC EL 101600
030-T-10	FIRE WATER TANK	TOC EL 102500
030-T-11A/B/C	FIRE WATER PUMPS DIESEL TANKS	TOC EL 102800
030-T-12	DIESEL TANK	TOC EL 102600 △4
030-T-13	POTABLE/UTILITIES WATER STORAGE TANK	TOC EL 102500
VESSELS		
030-V-01	CLOSED DRAIN DRUM	TOC EL 92400
030-V-02	POTABLE/UTILITIES WATER SUPPLY VESSEL	TOC EL 102500

LEGEND

Symbol	Meaning	Abbr.	Meaning
	CONCRETE PAVING LIMITS	CB	CONCRETE BLOCK SUPPORT
	EXISTING FACILITIES	CL	CENTER LINE
	GRATING	CP.T	CATHODIC PROTECTION TRANSFORMER
	MATCH LINE	DISCH	PUMP DISCHARGE NOZZLE
	NEW FACILITIES	EL	ELEVATION
	MAINTENANCE ACCESS/ DROP AREA	FOF	FACE OF FLANGE
	REFERENCE POINT	FS	FIXED SADDLE
	GRADE SLOPE	HPFP	HIGH POINT OF FINISHED PAVING
	ROAD SLOPE	MS	MISCELLANEOUS SUPPORT
	PRECAST CONCRETE FENCE	PF	PLATFORM
TOC	TOP OF CONCRETE	SH	SUN SHADE
TOS	TOP OF STEEL	SL	SLEEPER
CF	CONCRETE FOUNDATION	WT	WATCHING TOWER



KEY PLAN

REV	DATE	DESCRIPTION	PROCESS (PTD)	LOSS PREV (PTD)	INSTRUMENT	ELECTRICAL	CIVIL/OFFSHORE	MECHANICAL	CONST.SUP.	PIPING	DEPT.MGR	DIV.G.MGR	PEM
4	AUG 12 2020	REISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
3	MAR 08 2020	ISSUED FOR CONSTRUCTION	H.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
2	[illegible] 14 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.F.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
1	OCT 15 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
0	SEP 19 2019	ISSUED FOR DESIGN	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.

EGPC

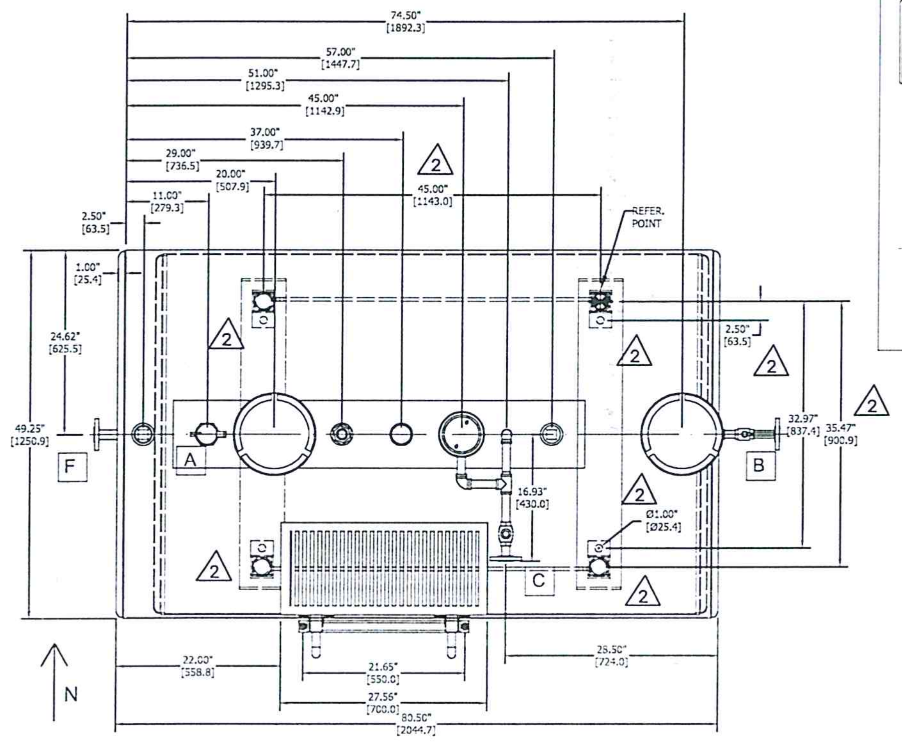
COMPANY PROJ. No. : N/A
ENPPI PROJ. No. : 01251-100
FOR : EGPC
AT : AGROOD, SUEZ
لاجـل الهيئة المصرية العامة للبترول
الموقع عجرود السويس

CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

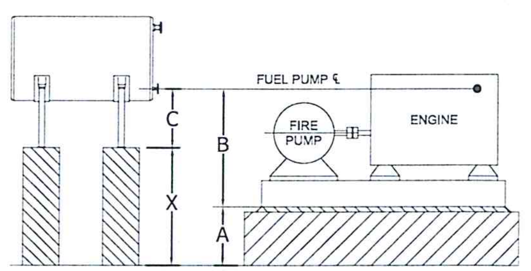
SCALE	ENPPI DRAWING NUMBER	SHEET	REVISION
1:1000	01251-100-030-KPP-002	01/01	4

A0 SIZE: 1189 X 841



FUEL SUPPLY VALVE ELEVATION CALCULATION

Per NFPA-20 the fuel supply valve shall have the same elevation as the engine's fuel pump.

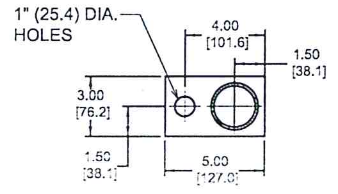


A : ELEVATION OF FOUNDATION (200 mm).
B : ELEVATION FROM BOTTOM OF SKID TO FUEL PUMP CENTERLINE (1166 mm)
C : FUEL SUPPLY NOZZLE HEIGHT FROM BOTTOM OF TANK LEGS (588 mm)

X = A + B - C ≥ 778 mm, final 800.0mm

Item Number	DESCRIPTION	Quantity	Material
1	FUEL TANK BODY 3.2mm THICK	1	ASTM A36
2	FLG 1" 150# RF	2	ASTM A105N
3	BALL VALVE 1" NPT	1	BRONZE B62
4	1" 150# RF BLIND	1	ASTM A105N
5	LADDER WITH PLATFORM 700mm	-	ASTM A36
6	LEAK SENSOR 1" NPT	1	POLYPROPYLENE
7	1" PLUG	1	ASTM A234
8	3/4" NPT BALL VALVE	1	BRONZE B62
9	EMERGENCY VENT 6" NPTM	2	CAST IRON ASTM A644
10	2" COUPLING	4	ASTM A234
11	3/4" NPT CHECK VALVE	1	BRONZE B62
12	1" 150# RF drilled with 3/4" npt hole	2	ASTM A105N
13	1" PIPE PERFORATED 42" LONG	1	ASTM A53
14	2" PIPE PERFORATED 48" LONG	1	ASTM A53

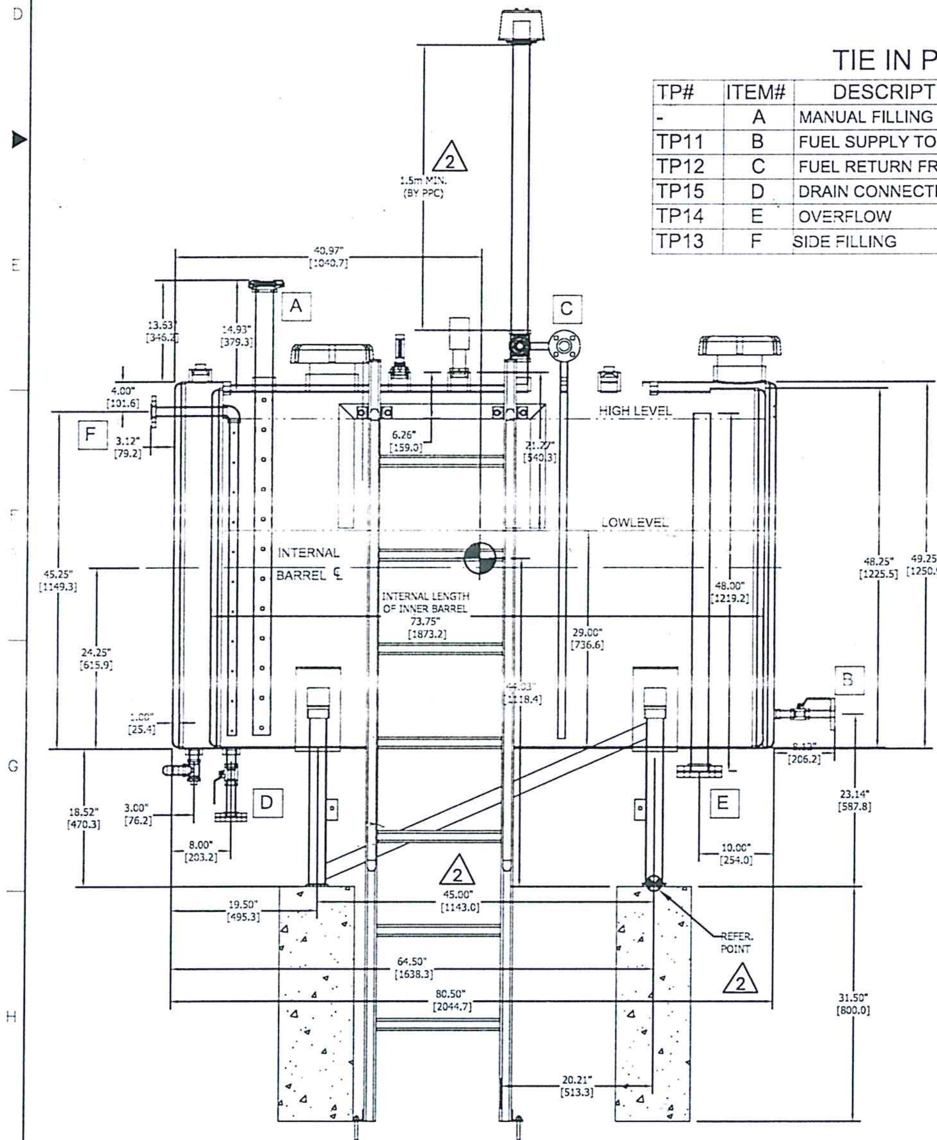
Item Number	DESCRIPTION	Quantity	Material
15	2" NPT PIPE , 1.5m LONG MINIMUM BY PPC (2)	1	ALUMINUM
16	WEATHER VENT. 2" FNPT (flame arrestor)	1	ALUMINUM
17	LEVEL GAUGE 1.5" NPTM	1	ALUMINIUM
18	LEVEL SWITCH 1.25" NPTM	1	ALUMINIUM
19	2" NPTM PLUG	1	ASTM A234
20	2" CAP WITH PADLOCK	1	CAR. STEEL
21	2" PIPE , 12" LONG (WITH STRAINER IN SS)	1	ASTM A53
22	EARTHING PLATE DIAGONALLY	2	316 SS
23	2" 150# RF	1	ASTM A105N
24	2" 150# RF BLIND	1	ASTM A105N
25	2" PIPE , 48" LONG	1	ASTM A53
26	M10x110 EXPANSION BOLT FOR LADDER	2	GALV. STEEL

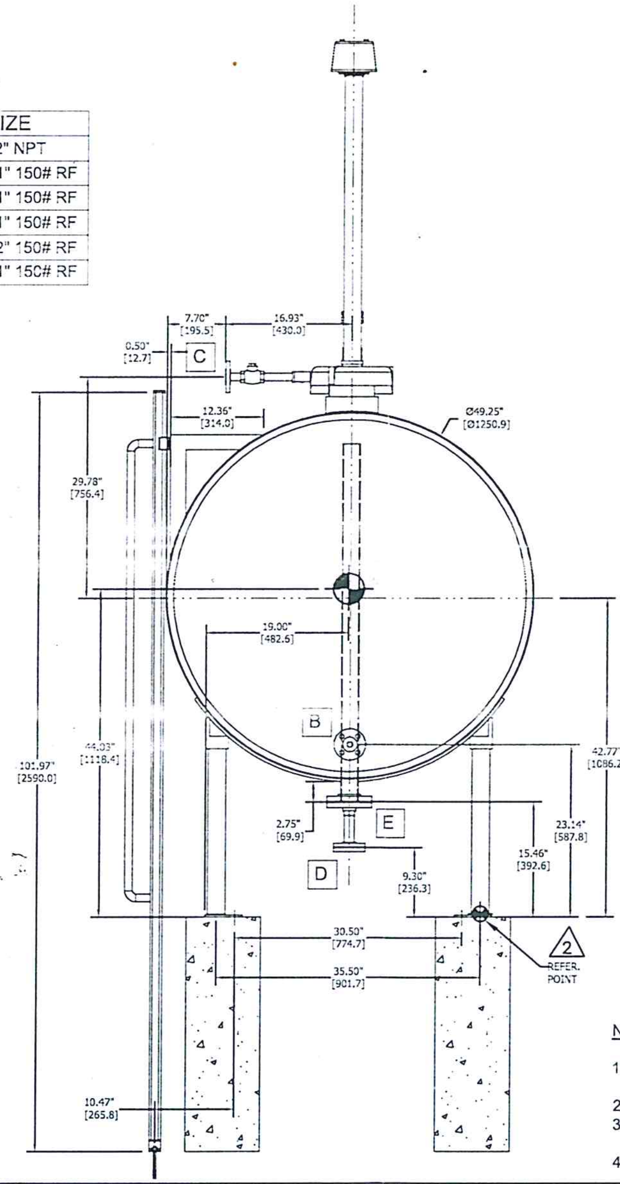


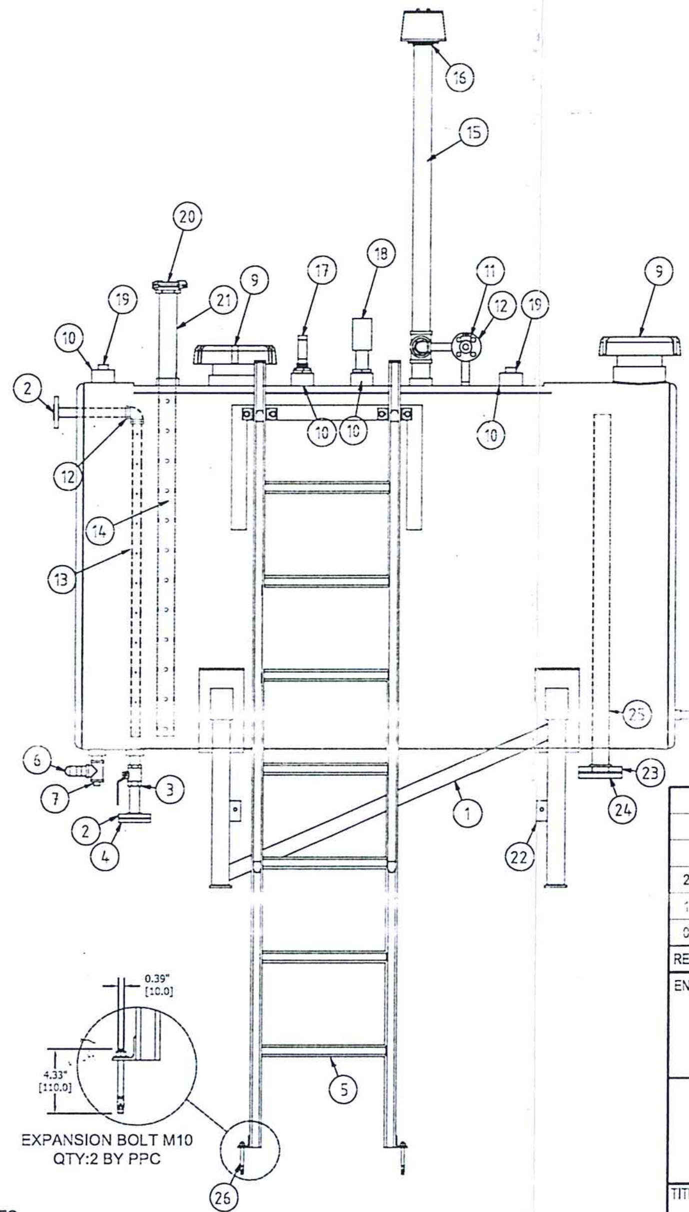
FOOTPLATE DETAIL

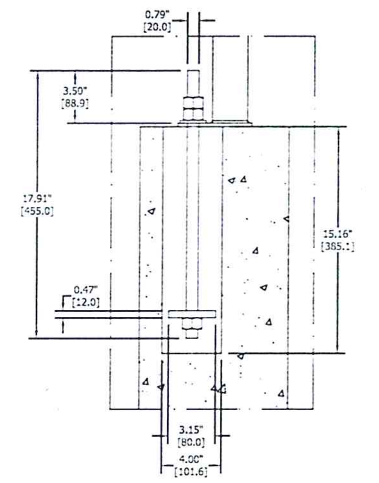
TIE IN POINT LIST

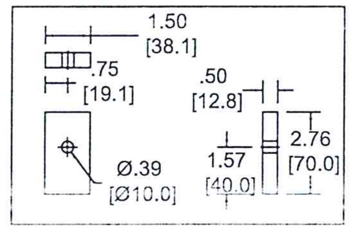
TP#	ITEM#	DESCRIPTION	SIZE
-	A	MANUAL FILLING	2" NPT
TP11	B	FUEL SUPPLY TO ENGINE	1" 150# RF
TP12	C	FUEL RETURN FROM ENGINE	1" 150# RF
TP15	D	DRAIN CONNECTION	1" 150# RF
TP14	E	OVERFLOW	2" 150# RF
TP13	F	SIDE FILLING	1" 150# RF











NOTES

1. THE DESIGN DATA FOR THE DAY TANK SHALL BE SPECIFIED BY NFPA20 AND UL 142.
2. Fuel Tank inner / outlet thickness: 5.0 mm
3. Temperature Design / Operating: 85 °C / 60 °C Pressure Design / Operating: 1.0 Barg / Atm.
4. DYNAMIC LOADS ARE NEGLIGIBLE.

Capacity: 550 gallon
WEIGHT EMPTY = 564.0 kg
WEIGHT FULL = 2328.0 kg

REV	DESCRIPTION	DWRN	CHK'D	APP'D	DATE
2	ISSUED FOR APPROVAL	GN	AG	AG	15-APR-2020
1	ISSUED FOR APPROVAL	GN	AG	AG	24-MAR-2020
0	ISSUED FOR APPROVAL	GN	AG	AG	26-FEB-2020

END USER: Enppi

Patterson Pump Company

PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5
SEQ. NO. : D01
JOB NO. : EGQ-7414
DWG SIZE:
SCALE :

TITLE: Diesel Fuel Tank Drawing 550 Gallon Double Wall

DWG NO.: ATH-FT550DW-200226 | SHT: 1/1 | REV: 2

30-LP-18

PETROJET بتروجت Enppi	REQUEST FOR INSPECTION RFI	EGPC — Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)	Date: 2/4 / 2021

0125

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☐ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Elevation check for: 030 - FB-01

FOAM BLADDER SKID

Time : Date 2/4 / 2021

Reference Documents # :

DWG No: 1251-100-S06-B01-0001/1

Plot Plan No. 01251-100-030-KPP-002

Elevation Report.

CONTRACTOR Comment:

Release for Grout.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	M. Abbas	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

QA/QC civil
Eng. Hesham Eid

EGPC / Petroleum Pipelines Company	CRUDE OIL TANK FARM PROJECT (AGROOD AREA)	PETROJET / Enppi
Project :	**INSPECTION SURVEYING REPORT**	

RIT No : ____________ Report No : ____________ Area : 030

STRUCTURE / ELEMENT : 030 - FB - 01 DESCRIPTION : Foam Bladder Skid

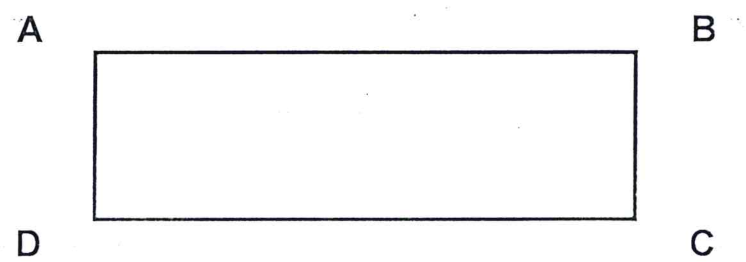
DWG : 1251 - 100 - 506 - B01 0001/1 Rev : ____________ Status : ____________

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS

Section

NO	THIORITICAL	ACTUAL	
A	102.32	102.322	
B	102.32	102.322	
C	102.32	102.322	
D	102.32	102.323	



REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

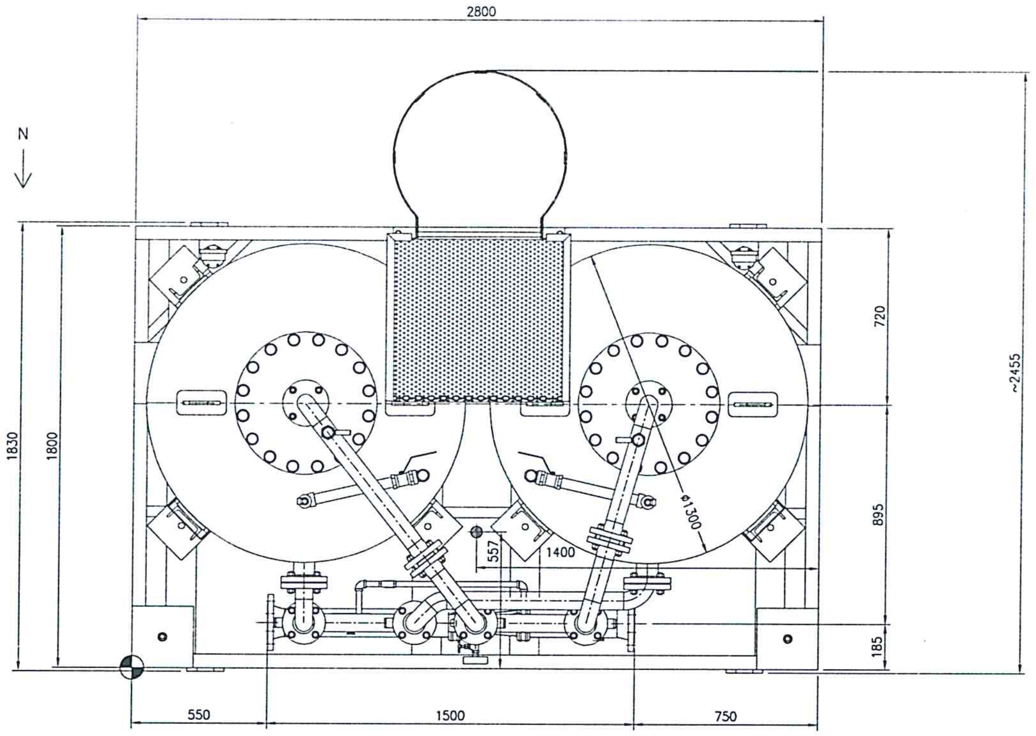
INSPECTION RESULTS :

- APPROVED ☑
- NOT APPROVED ☐
- APPROVED W/ COMMENT ☐

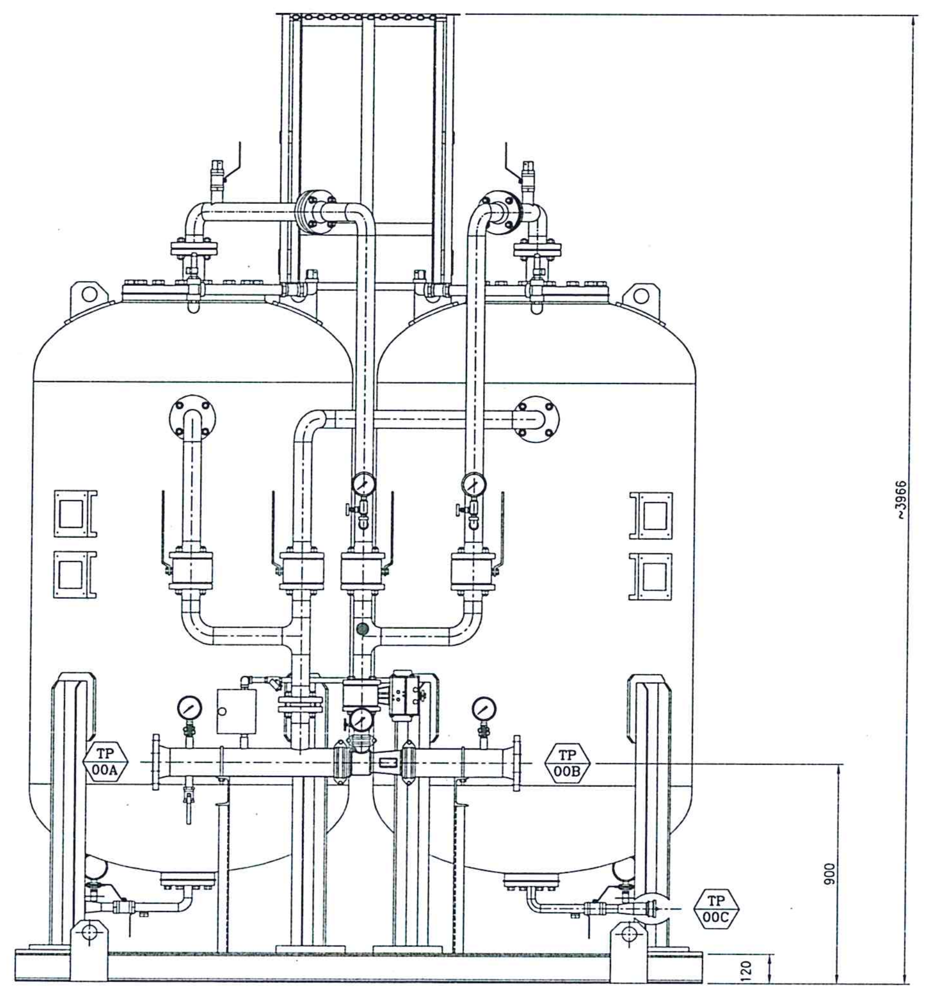
REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME		M. Abbas	M. Saleh
SIGN.	[signature]	[signature]	[signature]
DATE			

PLAN VIEW



ELEVATION



TANK DESIGN DATA

DIRECTIVE AGREEMENT	"PED" 2014/68/EU	
CONSTRUCTION CODE	ASME	
DESIGN PRESSURE	232 PSI (16 bar)	
TEST PRESSURE (bar)	332 PSI (22.9 bar)	
FLUID OPERATIVE TEMPERATURE	MIN. +1 °C – MAX. +30 °C ADVISED	
METALLIC PART DESIGN TEMPERATURE	MIN. -10 °C – MAX. +50 °C	
INSULATION	NO	
OUT OF ROUND MAX	0.5%	
HEAD TYPE	ELLIPTICAL 2:1	
PRESSURE TEST TO BE EXECUTED BY	MANUFACTURER	
THICKNESS	SHELL , HEADS	
THICKNESS ALLOWANCE	SHELL	-0.3 mm
	HEADS	+/-10%
RX TEST	NO	
JOINT EFFICENCY	SHELL , HEADS	0.7
CORROSION THICKNESS	SHELL , HEADS	3mm
	INTERNAL PART	//
FORMING	SHELL	COLD FORMING
	HEADS	COLD FORMING
TANK DATA		
EQUIPMENT TYPE	VERTICAL	
EQUIPMENT MODEL	MXC-V	
INSTRUMENT CATEGORY	1°	
MODULE FOR COMPLIANCE VALUATION	A	
LIQUID CONTENT	WATER / FOAM	GROUP 2 Dir. 2014/68/EU
CAPACITY	700 USG EACH – 2600 L	
TANK WEIGHT (EMPTY)	Kg. 2000 APPROX.	
TANK WEIGHT (FILLED)	Kg. 4600 APPROX.	
FRAME WEIGHT	Kg. 280 APPROX.	
WHOLE SYSTEM WEIGHT (EMPTY)	Kg. 4580 APPROX.	
WHOLE SYSTEM WEIGHT (FILLED)	Kg. 9780 APPROX.	
WHOLE SYSTEM WEIGHT (FILLED) IN TEST CASE	Kg. 9880 APPROX.	

PAINTING & SURFACE PREPARATION ACCORDING TO :
#1251-100-100-020 SPECIFICATION

INTERNAL TANK PAINT SYSTEM	#7
EXTERNAL TANK & MANIFOLD PAINT SYSTEM	#1
SKID FRAME PAINT SYSTEM	#1
STAINLESS STEEL PIPES PAINT SYSTEM	#11

MATERIAL LIST:

- PNEUMATIC OPERATED VALVE – MANUAL RESET
- 2"1/2 TWO WAY BALL VALE
- WAFER TYPE FLANGED – ANSI #150
- COMPLETE WITH DOUBLE ACTING ACTUATOR
- WATER SUPPLY PRESSURE MINIMUM 4 bar
- MATERIALS
- BODY : STAINLESS STEEL
- BALL : STAINLESS STEEL

TERMINATION POINT SCHEDULE

TIE-IN POINT No.	SIZE	DESCRIPTION
TP-00A	4" ANSI WELDING NECK FLANGE 150# RF	FIRE WATER INLET
TP-00B	4" ANSI WELDING NECK FLANGE 150# RF	FOAM SOLUTION OUTLET
TP-00C	QUICK CONNECTION 1½" BSS 336 F	FOAM FILLING LINE

REFERENCE POINT
CENTER OF GRAVITY
N NORTH DIRECTION

REFERENCES

DOCUMENT NUMBER	DESCRIPTION
TFS-CF3G00125-MD-002	P&ID FOR FOAM BLADDER SKID

NOTES

1. LIFTING LUGS ON TANKS USED ONLY TO LIFT SINGLE EMPTY TANK
2. LIFTING LUGS ON BASE FRAME USED TO LIFT SKID WITHOUT ANY TANK
3. WATER LINE (PIPES, FLANGES AND BUTT WELDING FITTINGS) MATERIAL: CARBON STEEL GALVANIZED.
4. FOAM CONCENTRATE LINE MATERIAL: STAINLESS STEEL AISI 316
5. BLADDER MATERIAL: NYLON-REINFORCED HYPALON-NEOPRENE
6. DIMENSIONS WITH * MAY CHANGE DURING CONSTRUCTION
7. ALL THE BASE FRAMES MUST BE LIFTED WITH A SPREADER BEAM
8. MANIFOLD MATERIAL: ASTM A106 GR.B SCH.40

LEGEND

REV	DATE	DESCRIPTION	DRN	CHK'D	APPRD
4	26-AUG-20	ISSUED FOR REVIEW			
3	24-AUG-20	ISSUED FOR REVIEW			
2	12-AUG-20	ISSUED FOR REVIEW			
1	07-AUG-20	ISSUED FOR REVIEW			
0	22-MAY-20	ISSUED FOR REVIEW	GKK	SHK	LN

EGPC EGPC

FOR EGYPTIAN GENERAL PETROLEUM CORPORATION

AT RAS SHUKEIR

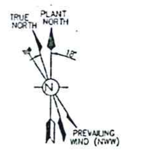
PROJECT TITLE
CRUDE OIL TANK FARM PROJECT
RAS SHUKEIR AREA

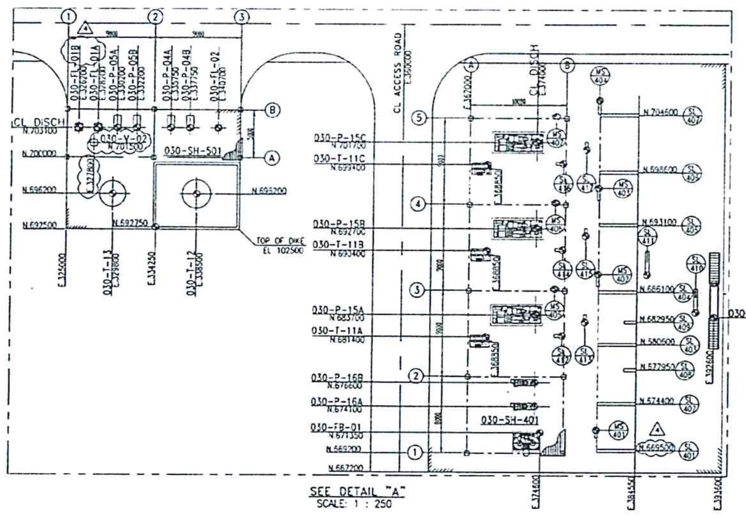
DRAWING TITLE
GA DRAWING FOR THE FOAM BLADDER SKID

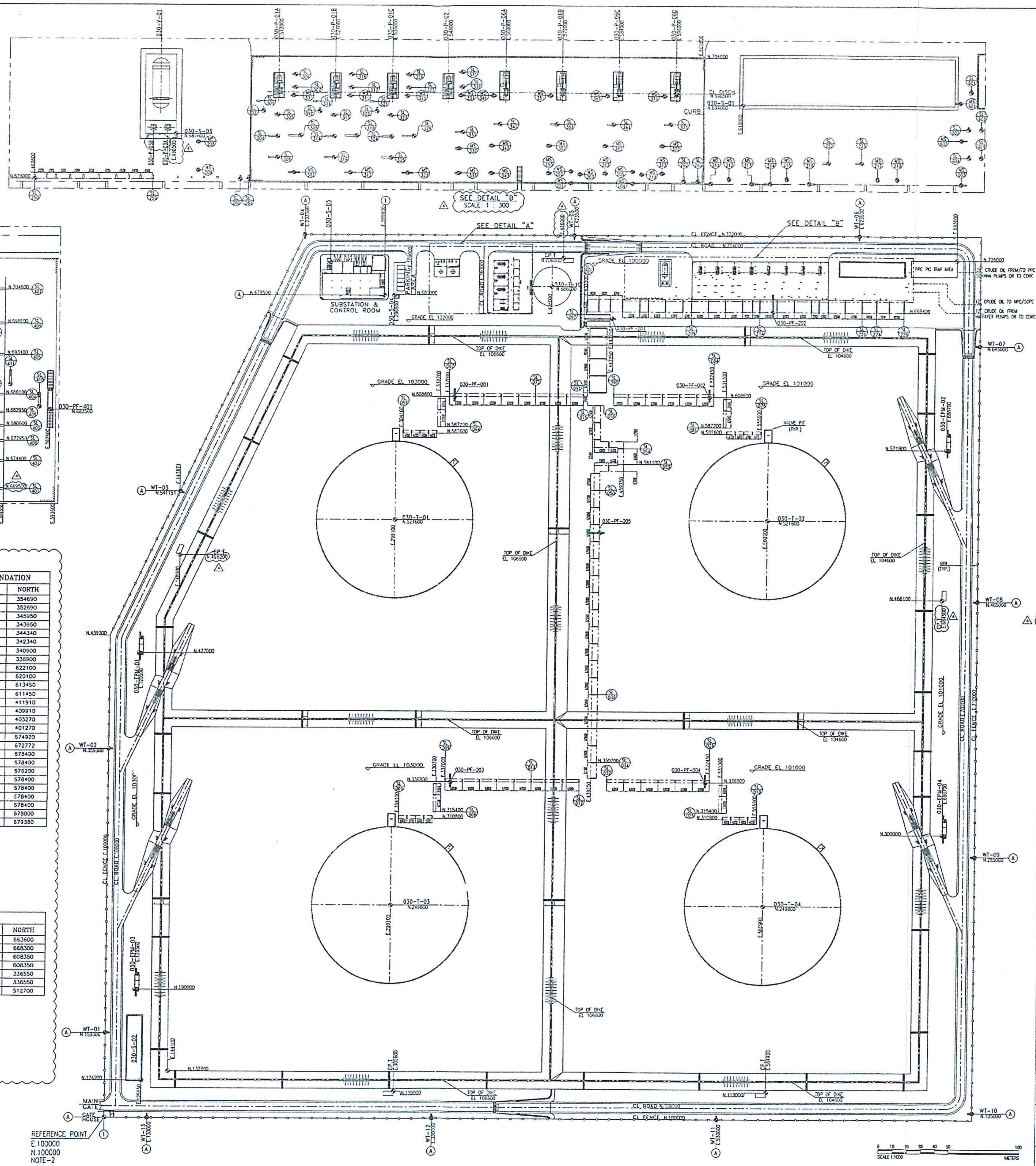
الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

FIRE FIGHTING CONTRACTOR
tyco Fire & Security UAE
TYCO DWG No.: TFS-CF3G00125-MD-001

SCALE	ENPPI PROJECT NO.	DRAWING NUMBER	REVISION
1:15	1251-100	1251-100-S06-B01-0001/1	5







PIPE SLEEPERS		
SL NO.	EAST	NORTH
SL-222	628150	681800
SL-223	635150	681800
SL-260	504050	678000
SL-261	505750	678000
SL-262	597700	677850
SL-263	600650	677850
SL-302	508800	692500
SL-303	511800	691700
SL-304	511850	687150
SL-305	511850	682700
SL-306	515550	700300
SL-307	515550	697550
SL-308	516650	687300
SL-312	520800	692500
SL-313	523800	691700
SL-314	523850	687150
SL-315	523850	682700
SL-316	527550	700300
SL-317	527550	697550
SL-318	528550	687300
SL-322	532800	692500
SL-323	535800	691700
SL-324	535850	687150
SL-325	535850	682700
SL-326	539550	700300
SL-327	539550	697550
SL-328	540650	687300
SL-331	551050	700900
SL-332	551050	697750
SL-333	551100	688150
SL-341	557850	689850
SL-351	569850	689850
SL-361	581850	689850
SL-371	593850	689850
SL-410	390700	684000
SL-411	385600	687900
SL-412	376750	681500
SL-413	379150	682950
SL-414	376750	690500
SL-415	379150	691950
SL-416	376750	699500
SL-417	379150	700950
SL-601	658500	696900
SL-602	658000	689050
SL-603	660700	689050
SL-604	658100	683050
SL-605	660700	683050

MISCELLANEOUS PIPE SUPPORTS		
MS NO.	EAST	NORTH
MS-201	574000	677400
MS-202	574000	679900
MS-203	575900	679300
MS-204	587000	677400
MS-205	587000	679900
MS-208	495240	685900
MS-209	495240	679900
MS-210	588900	679300
MS-211	603450	677400
MS-212	607250	678400
MS-213	612050	677400
MS-214	615900	677400
MS-215	619300	678400
MS-216	624050	677400
MS-217	638500	678400
MS-218	642600	678400
MS-301	515200	695800
MS-302	515400	679500
MS-311	527200	695800
MS-312	527400	679500
MS-321	539200	695800
MS-322	539400	679500
MS-331	550700	695950
MS-332	550300	684700
MS-333	550300	679500
MS-341	557500	695900
MS-342	557200	685300
MS-343	557200	679500
MS-351	569500	695900
MS-352	569200	685300
MS-353	569200	679500
MS-361	581500	695900
MS-362	581200	685300
MS-363	581200	679500
MS-371	593500	695900
MS-372	593200	685300
MS-373	593200	679500
MS-401	380450	671600
MS-402	380450	687900
MS-403	380450	696900
MS-404	380450	706150
MS-405	375950	686400
MS-406	375950	695400
MS-407	375950	704400
MS-601	656200	694650
MS-602	656500	686700
MS-603	656500	677400

CONCRETE FOUNDATION		
CF NO.	EAST	NORTH
CF-401	691270	354690
CF-402	691270	352690
CF-403	691270	345950
CF-404	691270	343950
CF-405	120790	344340
CF-406	120790	342340
CF-407	120790	340900
CF-408	120790	338900
CF-409	691270	622100
CF-410	691270	620100
CF-411	691270	613450
CF-412	691270	611450
CF-413	120790	411910
CF-414	120790	409910
CF-415	120790	403270
CF-416	120790	401270
CF-417	235500	574920
CF-419	234545	672772
CF-420	452630	578400
CF-422	450280	578400
CF-201	550700	576200
CF-202	499300	578400
CF-203	496450	578400
CF-204	493900	578400
CF-205	491000	578400
CF-206	457500	678000
CF-208	157500	679380

PLATFORM		
PF NO.	EAST	NORTH
PF-201	450750	663600
PF-202	563000	668300
PF-001	340550	608350
PF-002	519450	608350
PF-003	340550	336550
PF-004	519450	336550
PF-005	443500	512700

REFERENCES	
DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KPP-001	OVERALL SITE PLAN
01251-100-030-AEL-01	PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01	PROCESS FLOW DIAGRAM

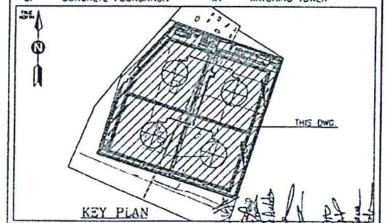
NOTES

1- ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PLANT COORDINATES N 100000 MM & E 100000 MM ARE EQUIVALENT TO UTM SYSTEM N 3325453000 & E 440751000 REFERENCED FROM CONSTRUCTION CONTRACTOR (PETROJET CO.) SURVEY DRAWINGS.
3- HPFS ELEVATION 100000 IS EQUIVALENT TO TRUE ELEVATION 117000 ABOVE MEAN SEA LEVEL
4- ALL SLEEPERS AND MISCELLANEOUS SUPPORT ARE PREFIXED WITH AREA NUMBER (030).
5- WATCHING TOWER COLUMN CENTERLINE ON SAME FENCE CENTERLINE.
6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT

EQUIPMENT LIST		
EQUIP. NO.	DESCRIPTION	ELEVATION REFERENCE
ELECTRICAL EQUIPMENT		
030-EPM-01 / 03	ELECTRICAL POWER MODULE	TOC EL 104500
030-EPM-02 / 04	ELECTRICAL POWER MODULE	TOC EL 102500
FILTERS		
030-FL-01A/B	POTABLE/UTILITIES WATER FILTERS	TOC EL 102200
030-FL-02	DIESEL OIL FILTER	TOC EL 102200
MIXERS		
030-MX-01A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-01) MIXER	-
030-MX-02A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-02) MIXER	-
030-MX-03A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-03) MIXER	-
030-MX-04A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-04) MIXER	-
PACKAGES		
030-FB-01	FOAM BLADDER SKID	TOC EL 102200
PUMPS		
030-P-01A/B/C	CRUDE OIL BOOSTER PUMPS	TOC EL 100200
030-P-02	CRUDE OIL MEDIUM DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-06A/B/C/D	CRUDE OIL HIGH DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-03A/B	CLOSED DRAIN PUMPS	TOC EL 100200
030-P-04A/B	DIESEL OIL TRANSFER PUMPS	TOC EL 102175
030-P-05A/B	POTABLE/UTILITIES WATER FEED PUMPS	TOC EL 102150
030-P-15A/B/C	DIESEL FIRE WATER PUMPS	TOC EL 102200
030-P-16A/B	FIRE WATER JOCKEY PUMPS	TOC EL 102200
SUMPS		
030-S-01	OPEN DRAIN SUMP	TOC EL 100200
030-S-02	OPEN DRAIN SUMP	TOC EL 103200
030-S-03	CLOSED DRAIN SUMP	TOC EL 100200
030-S-04	SANITARY SEWAGE COLLECTION SUMP	TOC EL 102200
030-S-05	TRANSFORMERS OIL COLLECTING SUMP	TOC EL 102200
TANKS		
030-T-01/03	CRUDE OIL STORAGE TANK	TOC EL 103600
030-T-02/04	CRUDE OIL STORAGE TANK	TOC EL 101600
030-T-10	FIRE WATER TANK	TOC EL 102500
030-T-11A/B/C	FIRE WATER PUMPS DIESEL TANKS	TOC EL 102800
030-T-12	DIESEL TANK	TOC EL 102600
030-T-13	POTABLE/UTILITIES WATER STORAGE TANK	TOC EL 102500
VESSELS		
030-V-01	CLOSED DRAIN DRUM	TOC EL 92400
030-V-02	POTABLE/UTILITIES WATER SUPPLY VESSEL	TOC EL 102500

LEGEND

Symbol	Meaning	Abbr.	Meaning
	CONCRETE PAVING LIMITS	CB	CONCRETE BLOCK SUPPORT
	EXISTING FACILITIES	CL	CENTER LINE
	GRATING	CP.T	CATHODIC PROTECTION TRANSFORMER
	MATCH LINE	DISCH	PUMP DISCHARGE NOZZLE
	NEW FACILITIES	EL	ELEVATION
	MAINTENANCE ACCESS/ DROP AREA	FOF	FACE OF FLANGE
	REFERENCE POINT	FS	FIXED SADDLE
	GRADE SLOPE	HPFP	HIGH POINT OF FINISHED PAVING
	ROAD SLOPE	MS	MISCELLANEOUS SUPPORT
	PRECAST CONCRETE FENCE	PF	PLATFORM
TOC	TOP OF CONCRETE	SH	SUN SHADE
TOS	TOP OF STEEL	SL	SLEEPER
CF	CONCRETE FOUNDATION	WT	WATCHING TOWER



KEY PLAN

EGPC

COMPANY PROJ. No. : N/A | FOR : EGPC | لاجل الهيئة المصرية العامة للبترول

ENPPI PROJ. No. : 01251-100 | AT : AGROOD, SUEZ | الموقع عجرود السويس

CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	ENPPI DRAWING NUMBER	SHEET	REVISION
1:1000	01251-100-030-KPP-002	01/01	4

A0 SIZE: 1189 X 841

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

8.04- Boxing-up Certificates

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | Enppi | PETROJET بتروجت

INSPECTION TYPE: VESSEL FINAL BOX-UP	REPORT No
	AREA / LOCATION : 030-T-11C

ITEM No. DIESEL FUEL TANK

	PETROJET	ENPPI	PMC
SIGNATURE	[signature]	[signature]	[signature]

	CHECK ITEMS	ACC	REJ	N/A	REMARKS
1	All Internal works completed and inspected.			✓	
2	Housekeeping/cleaning completed. No instrument, scaffold and other materials are left inside equipment.	✓			
3	No foul odor or signs of unsanitary condition is observed.	✓			
4	Manhole opening faces are clean and free from damage.			✓	
5	No pending issues such as Internal modification, NCR, FQA, Vendor/Licensor comments etc. are unclosed.	✓			
6	Correct gasket is used for the final closure.	✓			

ATTACHMENT LIST

No.	DOCUMENT DESCRIPTION	REMARKS
1		
2		
3		

Comment/Sketch:

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | Enppi | PETROJET بتروجت

INSPECTION TYPE: **VESSEL FINAL BOX-UP**	REPORT No
	AREA / LOCATION : 030-T-11B

ITEM No. DIESEL FUEL TANK

	PETROJET	ENPPI	PMC
SIGNATURE	[signature]	[signature]	[signature]

	CHECK ITEMS	ACC	REJ	N/A	REMARKS
1	All Internal works completed and inspected.			✓	
2	Housekeeping/cleaning completed. No instrument, scaffold and other materials are left inside equipment.	✓			
3	No foul odor or signs of unsanitary condition is observed.	✓			
4	Manhole opening faces are clean and free from damage.			✓	
5	No pending issues such as Internal modification, NCR, FQA, Vendor/Licensor comments etc. are unclosed.	✓			
6	Correct gasket is used for the final closure.	✓			

ATTACHMENT LIST

No.	DOCUMENT DESCRIPTION	REMARKS
1		
2		
3		

Comment/Sketch:

<u>LEGEND</u> ACC : ACCEPT N.A. : Not Applicable REJ : REJECT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | Enppi | PETROJET بتروجت

INSPECTION TYPE: **VESSEL FINAL BOX-UP**	REPORT No
	AREA / LOCATION : 030-T-11A

ITEM No. DIESEL FUEL TANK

	PETROJET	ENPPI	PMC
SIGNATURE	[signature]	[signature]	[signature]

	CHECK ITEMS	ACC	REJ	N/A	REMARKS
1	All Internal works completed and inspected.			✓	
2	Housekeeping/cleaning completed. No instrument, scaffold and other materials are left inside equipment.	✓			
3	No foul odor or signs of unsanitary condition is observed.	✓			
4	Manhole opening faces are clean and free from damage.			✓	
5	No pending issues such as Internal modification, NCR, FQA, Vendor/Licensor comments etc. are unclosed.	✓			
6	Correct gasket is used for the final closure.	✓			

ATTACHMENT LIST

No.	DOCUMENT DESCRIPTION	REMARKS
1		
2		
3		

Comment/Sketch:

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | Enppi | PETROJET بتروجت

INSPECTION TYPE: **TANK FINAL BOX-UP**	REPORT No
	AREA / LOCATION : 030-T-010

ITEM No. DESCRIPTION: Fire Water Tank

	PETROJET	ENPPI	PMC
SIGNATURE	[signature]	Abdullah Fathy [signature]	[signature]

	CHECK ITEMS	ACC	REJ	N/A	REMARKS
1	All Internal works completed and inspected.	✓			
2	Housekeeping/cleaning completed. No instrument, scaffold and other materials are left inside equipment.	✓			
3	No foul odor or signs of unsanitary condition is observed.	✓			
4	Manhole opening faces are clean and free from damage.	✓			
5	No pending issues such as Internal modification, NCR, FQA, Vendor/Licensor comments etc. are unclosed.	✓			
6	Correct gasket is used for the final closure.	✓			

ATTACHMENT LIST

No.	DOCUMENT DESCRIPTION	REMARKS
1		
2		
3		

Comment/Sketch:

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

8.05- Grouting Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

8.06- Pre-Alignment Certificates

PETROJET بتروجت | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

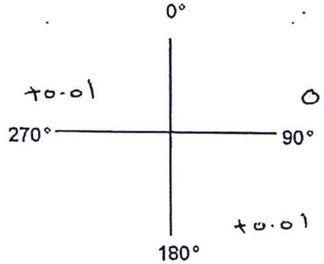
INSPECTION & TEST RECORD

ROTATING EQUIPMENT PRELIMINARY ALIGNMENT

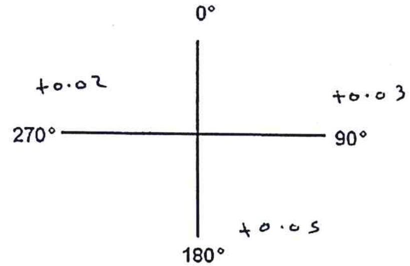
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Tag No : 030-P-16A	Description : FIRE WATER JockEY PUMP	DATE :	
DWG No :	Location : 030	REPORT NO :	

RIM/AXIAL-RADIAL

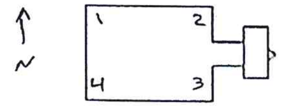


Axial



Radial

Soft Foot Readings



Foot No.	Reading
1	+0.03
2	+0.01
3	+0.03
4	+0.03

REFERENCE CODE/SPECIFICATION:

N/S	0
E/W	0.05

Coupling & Other Data

	Required Dimension	Actual Dimension
Coupling Gap DBSE/DBCE	140 mm	

REMARKS/NOTES:

	PETROJET QC	ENPPI	PMC
Name	Tarek Abdellatif Mostafa	For Abdallah Fathy	M. Saleh
Signature	[signature]	[signature]	[signature]
Date			

PETROJET	Enppi	**INSPECTION & TEST RECORD** ROTATING EQUIPMENT PRELIMINARY ALIGNMENT **CRUDE OIL TANK FARM PROJECT (AGROOD AREA)**	EGPC	Petroleum Pipelines Company شركة أنابيب البترول

Tag No : 030-P-16 B	Description : FIRE JOCKEY WATER PUMP	DATE :
DWG No :	Location : 030	REPORT NO :

RIM/AXIAL-RADIAL

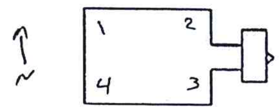
Axial

- 0°: 0
- 270°: 0
- 90°: 0.01
- 180°: 0.01

Radial

- 0°: 0
- 270°: -0.02
- 90°: 0
- 180°: -0.02

Soft Foot Readings



Foot No.	Reading
1	+0.01
2	+0.03
3	+0.04
4	+0.09

REFERENCE CODE/SPECIFICATION:

N/S	0.05
E/W	0.05

Coupling & Other Data

Coupling Gap DBSE/DBCE	Required Dimension	Actual Dimension
	140 mm	

REMARKS/NOTES:

	PETROJET QC	ENPPI	PMC
Name	Torek Abdellatif Mostafa.	For Abdallah Fathy	M. Saleh
Signature	[signature]	[signature]	[signature]
Date			

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

8.07- Mechanical Pre-Commissioning Checklists

Enppi

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 30-P-15C	**AREA**	: 30
REF. DWGs/DOCs	: 30-P-15C		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check roughening of concrete foundation, and good cleaning free dust or any foreign material.	ok	
2	Make sure that pump tag number, serial number and description are per plot plan definition.	P.L	
3	Check dimensions and location of foundation bolt-holes before erection.	ok	
4	Level the skid on shims located near anchor bolts to within +0.1 mm/m horizontal distance.	ok	
5	Make sure preliminary alignment of pump and driver has been checked.	NA	
6	Make sure skid is stable, unreformed, with no sagging.	ok	
7	Start grouting using non-shrink cementitious grout, grouting of anchor bolts and underneath of pump can proceed in the same time successively only in condition that skid level is not disturbed.	ok	
8	Grout must cover the bottom of skid, and be higher by at least 2-3 mm.	ok	
9	After curing of bottom grout, fill the skid with the same type of grout through existing grout holes.	ok	
10	Check tightening of foundation bolts (anchor bolts) 12 hours after complete grouting of the skid.	ok	

REMARKS AND OBSERVATIONS :

Name plates to be installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Kareem Abdallah / elsalky	Mohamed Abdul Sadek
SIGNATURE	Tarek	[signature] / [signature] 13/7/2021	[signature]
DATE		13/7/2021 / 13/7/2021	13/7/2021

10000-Z-000-EK7-TMP-0099 (04/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 30-P-15C	**AREA**	: 30
REF. DWGs/DOCs	: 30-P-15C		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
11	Check removal of all temporary supports (as applicable).	ok	
12	Check free rotation for pump.	ok	
13	Check all electrical connections are made according to wiring diagrams including earthing.	E&I	
14	Check all interconnecting piping / interface against customer & Supplier's per relevant drawings/P&ID for mechanical seal (including external flushing, external barrier fluid check valves/piping ... etc.)	PL	
15	Flushing of fuel supply/return system (including fuel tank, interconnecting piping ... etc).	ok	
16	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	ok	
17	All instruments are connected, calibrated and functionally tested.	E&I	
18	Check certifications of all instruments and devices and decide which items to be calibrated after the rough visual calibration.	E&I	
19	Functionally check all interfaces with plant control system.	Loss P.	
20	Check the engine and its ancillaries for cleanliness.	P.L	

REMARKS AND OBSERVATIONS :

* Exhaust duct need to fied
* House keeping for pump area to be performed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	patterson MESC	PPC
NAME		Kareem Attalla	elsalhy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature] 13/7/2021	[signature]
DATE		13/7/2021	13/7/2021	13/7/2021

Enppi

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 30-P-15C	**AREA**	: 30
REF. DWGs/DOCs	: 30-P-15C		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
21	Proper insulation execution of heat insulation on pump, suction / discharge piping. NO insulation is required on seal piping or cooling water system where system must exchange heat with ambient air, only warning signs is sufficient.	NA	
22	Check the painting visually for damage.	P.L	
23	Check that the filters for, combustion air, fuel and lube oil are in accordance with specifications and are also serviceable.	ok	
24	Check that the cooling system is filled with approved antifreeze or inhibitor to the correct Ph. value.	ok	
25	Check that, where applicable, the elecrtic batteries are connected.	ok	
26	Check proper installation of controller pressure sensing line as per nfpa 20.	ok	
27	Check proper wiring of controller as per supplier wiring diagram.	E&I	

REMARKS AND OBSERVATIONS :

* Touch up paint to be performed. Also, sensing line, fuel line & venturi flow meter to be painted

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	Patterson MFSC	PPC
NAME		Kareem Abdallah	elsalhy	Mohamed Abdel Sadek
SIGNATURE	Tareq	R. Abdallah	[signature]	M. A. Sadek
DATE		13/7/2021	13/7/2021	13/7/2021

Enppi

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check roughening of concrete foundation, and good cleaning free dust or any foreign material.	ok	
2	Make sure that pump tag number, serial number and description are per plot plan definition.	P.L	
3	Check dimensions and location of foundation bolt-holes before erection.	ok	
4	Level the skid on shims located near anchor bolts to within +0.1 mm/m horizontal distance.	ok	
5	Make sure preliminary alignment of pump and driver has been checked.	NA	
6	Make sure skid is stable, unreformed, with no sagging.	ok	
7	Start grouting using non-shrink cementitious grout, grouting of anchor bolts and underneath of pump can proceed in the same time successively only in condition that skid level is not disturbed.	ok	
8	Grout must cover the bottom of skid, and be higher by at least 2-3 mm.	ok	
9	After curing of bottom grout, fill the skid with the same type of grout through existing grout holes.	ok	
10	Check tightening of foundation bolts (anchor bolts) 12 hours after complete grouting of the skid.	ok	

REMARKS AND OBSERVATIONS :
Name plates to be installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Kareem Abdellah / elsalhy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	M.A. Sadek
DATE		24/6/21 / 24/6/2021	24/06/2021

10000-Z-000-EK7-TMP-0099 (04/14)

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
11	Check removal of all temporary supports (as applicable).	ok	
12	Check free rotation for pump.	ok	
13	Check all electrical connections are made according to wiring diagrams including earthing.	E&I	
14	Check all interconnecting piping / interface against customer & Supplier's per relevant drawings/P&ID for mechanical seal (including external flushing, external barrier fluid check valves/piping ... etc.)	PL	
15	Flushing of fuel supply/return system (including fuel tank, interconnecting piping ... etc).	ok	
16	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	ok	
17	All instruments are connected, calibrated and functionally tested.	E&I	
18	Check certifications of all instruments and devices and decide which items to be calibrated after the rough visual calibration.	E&I	
19	Functionally check all interfaces with plant control system.	loss P.	
20	Check the engine and its ancillaries for cleanliness.	P.L	

REMARKS AND OBSERVATIONS :

* leakage from fuel line to be fixed
* House keeping for pumps area to be performed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Kureem Atthalla / elsalhy	Mohamed Abdulsadek
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	[signature]
DATE		24/6/24 / 24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
21	Proper insulation execution of heat insulation on pump, suction / discharge piping. NO insulation is required on seal piping or cooling water system where system must exchange heat with ambient air, only warning signs is sufficient.	N/A	
22	Check the painting visually for damage.	P.L	
23	Check that the filters for, combustion air, fuel and lube oil are in accordance with specifications and are also serviceable.	ok	
24	Check that the cooling system is filled with approved antifreeze or inhibitor to the correct Ph. value.	ok	
25	Check that, where applicable, the elecrtic batteries are connected.	ok	
26	Check proper installation of controller pressure sensing line as per nfpa 20.	ok	
27	Check proper wiring of controller as per supplier wiring diagram.	E&I	

REMARKS AND OBSERVATIONS :
+ touch up paint to be performed. Also, sensing line, fuel line & venturi flow meter to be painted.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	Patterson MESC	PPC
NAME		Kareem Abdalla	elsalhy	Mohamed Abdel Sadek
SIGNATURE	Tarek	K. Abdalla	[signature] 24/6/2021	M. A. Sadek
DATE		24/6/2021	24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-15A		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check roughening of concrete foundation, and good cleaning free dust or any foreign material.	ok	
2	Make sure that pump tag number, serial number and description are per plot plan definition.	PL	
3	Check dimensions and location of foundation bolt-holes before erection.	ok	
4	Level the skid on shims located near anchor bolts to within +0.1 mm/m horizontal distance.	ok	
5	Make sure preliminary alignment of pump and driver has been checked.	NA	
6	Make sure skid is stable, unreformed, with no sagging.	ok	
7	Start grouting using non-shrink cementitious grout, grouting of anchor bolts and underneath of pump can proceed in the same time successively only in condition that skid level is not disturbed.	ok	
8	Grout must cover the bottom of skid, and be higher by at least 2-3 mm.	ok	
9	After curing of bottom grout, fill the skid with the same type of grout through existing grout holes.	ok	
10	Check tightening of foundation bolts (anchor bolts) 12 hours after complete grouting of the skid.	ok	

REMARKS AND OBSERVATIONS :

Name plates to be installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	Patterson MESC	PPC
NAME		Kareem Abdullah	elsalka	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	[signature] 24/6/2021	M. A. Sadek
DATE		24/6/2021	24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-15A		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
11	Check removal of all temporary supports (as applicable).	ok	
12	Check free rotation for pump.	ok	
13	Check all electrical connections are made according to wiring diagrams including earthing.	E&I	
14	Check all interconnecting piping / interface against customer & Supplier's per relevant drawings/P&ID for mechanical seal (including external flushing, external barrier fluid check valves/piping ... etc.)	pl	
15	Flushing of fuel supply/return system (including fuel tank, interconnecting piping ... etc).	ok	
16	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	ok	
17	All instruments are connected, calibrated and functionally tested.	E&I	—
18	Check certifications of all instruments and devices and decide which items to be calibrated after the rough visual calibration.	E&I	
19	Functionally check all interfaces with plant control system.	loss P.	
20	Check the engine and its ancillaries for cleanliness.	pl	

REMARKS AND OBSERVATIONS :

* leakage from fuel line to be fixed
* House keeping to be performed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Nareem Abdallah / elsalhy	Mohamed Abdel Sadek
SIGNATURE	[signature]	A. Abdallah [signature] 24/6/2021	M. A. Sadek
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-15A		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
21	Proper insulation execution of heat insulation on pump, suction / discharge piping. NO insulation is required on seal piping or cooling water system where system must exchange heat with ambient air, only warning signs is sufficient.	NA	
22	Check the painting visually for damage.	PL	
23	Check that the filters for, combustion air, fuel and lube oil are in accordance with specifications and are also serviceable.	ok	
24	Check that the cooling system is filled with approved antifreeze or inhibitor to the correct Ph. value.	ok	
25	Check that, where applicable, the elecrtic batteries are connected.	ok	
26	Check proper installation of controller pressure sensing line as per nfpa 20.	ok	
27	Check proper wiring of controller as per supplier wiring diagram.	Ell	

REMARKS AND OBSERVATIONS :

* touch up paint to be performed. Also, sensing line, fuel line & venturi flow meter to be painted

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Paterson MESC	PPC
NAME		Kareem Abdalla / elsalhy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature] / [signature] 6/2021	M. A. Sadek
DATE		24/6/2021 / 24/6/2021	24/06/2021

10000-Z-000-EK7-TMP-0099 (04/14)

Enppi

PRE-COMMISSIONING CHECK LIST
JOCKEY PUMP
ME-07 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-P-16A 30-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-P-16A
ITEM TAG No.	: 030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-16A		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check roughening of concrete foundation, and good cleaning free dust or any foreign material.	ok	
2	Make sure that pump tag number, serial number and description are per plot plan definition.	P.L	
3	Check dimensions and location of foundation bolt-holes before erection.	ok	
4	Level the skid on shims located near anchor bolts to within +0.1 mm/m horizontal distance.	ok	
5	Make sure preliminary alignment of pump and driver has been checked.	ok	
6	Make sure skid is stable, unreformed, with no sagging.	ok	
7	Start grouting using non-shrink cementitious grout, grouting of anchor bolts and underneath of pump can proceed in the same time successively only in condition that skid level is not disturbed.	ok	
8	Grout must cover the bottom of skid, and be higher by at least 2-3 mm.	ok	
9	After curing of bottom grout, fill the skid with the same type of grout through existing grout holes.	ok	
10	Find a way for grouting electric motor and pump supports (pedestal filling with grout) as per general arrangement drawing.	ok	

REMARKS AND OBSERVATIONS :

Name plates to be installed & house keeping for pump & area to be installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Petersen MESC	PPC
NAME		Kareem Attalla / elsalhy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	[signature]
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
JOCKEY PUMP
ME-07 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-P-16A 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-P-16A
ITEM TAG No.	: 030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-16A		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
11	Check tightening of foundation bolts (anchor bolts) 12 hours after complete grouting of the skid.	OK	
12	Check removal of all temporary supports (as applicable).	OK	
13	Check free rotation for pump, motor (and all other auxiliaries).	OK	
14	Check motor / pump alignment per manufacturer instructions.	OK	
15	Check greasing of electric motor with supplier recommended type of lubricants (as per Manufacturer instruction manual).	OK	
16	Check all controller electrical connections are made according to wiring diagrams including earthing.	E&I	
17	Check motor lubrication with recommended type of grease. Grease type must be found on motor name plate or supplier instruction manual.	OK	
18	Check pump's motordirection of rotation (Motor Solo Run) while measuring electric motor; bearing metal temperature, vibration and all phases currents measurements.	OK	
19	Assembly check of all loose shipped material as per equipment drawings.	OK	
20	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	Patterson MESC	PPC
NAME		Hareem Attalla	Elsalky	Mohamed Abdul Sadek
SIGNATURE	Tarek	[signature]	[signature] 24/6/2021	M.A. Sadek
DATE		24/6/2021	24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
JOCKEY PUMP
ME-07 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-P-16A 030-LP-0/0
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-P-16A
ITEM TAG No.	: 030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-16A		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
21	Check all interconnecting piping / interface against customer & Supplier's per relevant drawings/P&ID for mechanical seal (including external flushing, external barrier fluid check valves/piping ... etc.)	OK	
22	Properly clean suction piping, install suction strainer, make sure that all main piping connections are blinded throughout fabrication, pre-commissioning ... etc. up to clean and dry status of process suction / discharge piping prior to removal of all blinds for pump commissioning.	OK	
23	All instruments are connected, calibrated and functionally tested.	E&I	
24	Functionally check all interfaces with plant Fire&Gas system.	E&I and loss P.	
25	Check proper installation of controller pressure sensing line as per nfpa 20.	OK	
26	Check proper wiring of controller as per supplier wiring diagram.	E&I	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Kareem Atttallah / elsalhy	Mohamed Abdel sadek
SIGNATURE	Taher	A. Attallah / 24/6/2021	M. A. Sadek
DATE		24/6/2021 / 24/6/2021	24/06/2021

10000-Z-000-EK7-TMP-0101 (04/14)

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PRE-COMMISSIONING CHECK LIST
JOCKEY PUMP
ME-07 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-16B		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check roughening of concrete foundation, and good cleaning free dust or any foreign material.	ok	
2	Make sure that pump tag number, serial number and description are per plot plan definition.	P.L	
3	Check dimensions and location of foundation bolt-holes before erection.	ok	
4	Level the skid on shims located near anchor bolts to within +0.1 mm/m horizontal distance.	ok	
5	Make sure preliminary alignment of pump and driver has been checked.	ok	
6	Make sure skid is stable, unreformed, with no sagging.	ok	
7	Start grouting using non-shrink cementitious grout, grouting of anchor bolts and underneath of pump can proceed in the same time successively only in condition that skid level is not disturbed.	ok	
8	Grout must cover the bottom of skid, and be higher by at least 2-3 mm.	ok	
9	After curing of bottom grout, fill the skid with the same type of grout through existing grout holes.	ok	
10	Find a way for grouting electric motor and pump supports (pedestal filling with grout) as per general arrangement drawing.	ok	

REMARKS AND OBSERVATIONS :

Name plates to be Installed & house keeping for pump & area to be performed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / patterson MESC	PPC
NAME		Kareem Atteallah / elsalhy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	[signature]
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
JOCKEY PUMP
ME-07 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-16B		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
11	Check tightening of foundation bolts (anchor bolts) 12 hours after complete grouting of the skid.	ok	
12	Check removal of all temporary supports (as applicable).	ok	
13	Check free rotation for pump, motor (and all other auxiliaries).	ok	
14	Check motor / pump alignment per manufacturer instructions.	ok	
15	Check greasing of electric motor with supplier recommended type of lubricants (as per Manufacturer instruction manual).	ok	
16	Check all controller electrical connections are made according to wiring diagrams including earthing.	E&I	
17	Check motor lubrication with recommended type of grease. Grease type must be found on motor name plate or supplier instruction manual.	ok	
18	Check pump's motordirection of rotation (Motor Solo Run) while measuring electric motor; bearing metal temperature, vibration and all phases currents measurements.	ok	
19	Assembly check of all loose shipped material as per equipment drawings.	ok	
20	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / patterson MESC	PPC
NAME		Nareem Atallah / elsalhy	Mohamed Abdulsadek
SIGNATURE	[signature]	[signature] 24/6/2021	[signature]
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
JOCKEY PUMP
ME-07 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Mechanical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	: 030-P-16B		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
21	Check all interconnecting piping / interface against customer & Supplier's per relevant drawings/P&ID for mechanical seal (including external flushing, external barrier fluid check valves/piping ... etc.)	ok	
22	Properly clean suction piping, install suction strainer, make sure that all main piping connections are blinded throughout fabrication, pre-commissioning ... etc. up to clean and dry status of process suction / discharge piping prior to removal of all blinds for pump commissioning.	ok	
23	All instruments are connected, calibrated and functionally tested.	E&I	
24	Functionally check all interfaces with plant Fire&Gas system.	E&I and loss P.	
25	Check proper installation of controller pressure sensing line as per nfpa 20.	ok	
26	Check proper wiring of controller as per supplier wiring diagram.	E&I	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / patterson MESC	PPC
NAME		Kareem Attallah / elsalhy	Mohamed Abdel Saddik
SIGNATURE	[signature]	[signature] 24/6/2021	[signature]
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check Construction Punch lists and no subsequent damage occurred.	ok	
2	Check equipment against P& ID's.	ok	
3	Check installation against manufacturer's installation instructions and documents.	ok	
4	Check nameplate data .	PL	
5	Open the manhole and take out the volatile inhibitor, if there is any.	N/A	
6	Check tanks Alignment/position.	ok	
7	Check Heating coils and supports if fitted.	N/A	
8	Check Alignment and suspension of mixers if fitted.	N/A	
9	Check Height of skimmer pipes when fitted.	N/A	
10	Check Pressure/vacuum valves are operable.	ok	
11	Check Holding-down bolts tightness	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Check Tank Cleanliness.	N/A	
13	Check Purge lines are operable and correctly fitted.	OK	
14	Check Recirculation system is flushed and clean.	Ok	
15	Check Overflow lines are led to closed drains or sump tank.	N/A	
16	Check tank floating roof is free from obstacles hindering rolling ladder movement.	N/A	
17	Check that all internals are to manufacturer's, specification and drawing.	N/A	
18	Check striker plate fitted in case of sounding (well gauage) & filling pipe fitting,	N/A	
19	Check floating suction is fitted & operable.	N/A	
20	Check Drain lines are led to drainage system	OK	
21	Check internal paintwork/lining for damage.	N/A	
22	Check manhole gasket material.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME	Tarek	Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE		[signature]	M.A. Sadek
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
23	Check external paintwork for damage	ok	
24	Check access to valves, gauges, etc.	ok	
25	Check plug or blanks fitted to drain valves.	ok	
26	Check internal surface smoothness are compliant with design requirements.	N/A	
27	Confirm that sacrificial anodes inside the tank are in correct position and are of correct specification.	N/A	
28	Check tank calibration is performed (if requested).	N/A	
29	Check Vent pipes or safety valves are operable.	ok	
30	Check Installation of level alarm devices/simulate signal.	ok	
31	Check Tank gauges.	ok	
32	Check Drain lines are clear.	ok	
33	ck Suction and discharge lines are flushed and cleaned.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
34	Verify that all nozzles are open from inside and that they are not plugged or restricted with foreign articles , dirt ,..etc.	OK	
35	Replace the temporary gasket of man way with the designated one (if required), close the manhole and torque tighten its bolts.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohammed Abdelsadek
SIGNATURE	Tarek	[signature]	M. A. Sadek
DATE			

10000-Z-000-EK7-TMP-0121 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check Construction Punch lists and no subsequent damage occurred.	ok	
2	Check equipment against P& ID's.	ok	
3	Check installation against manufacturer's installation instructions and documents.	ok	
4	Check nameplate data .	PL	
5	Open the manhole and take out the volatile inhibitor, if there is any.	N/A	
6	Check tanks Alignment/position.	ok	
7	Check Heating coils and supports if fitted.	N/A	
8	Check Alignment and suspension of mixers if fitted.	N/A	
9	Check Height of skimmer pipes when fitted.	N/A	
10	Check Pressure/vacuum valves are operable.	ok	
11	Check Holding-down bolts tightness	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdel Salam
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check Tank Cleanliness.	OK	
13	Check Purge lines are operable and correctly fitted.	ok	
14	Check Recirculation system is flushed and clean.	ok	
15	Check Overflow lines are led to closed drains or sump tank.	N/A	
16	Check tank floating roof is free from obstacles hindering rolling ladder movement.	N/A	
17	Check that all internals are to manufacturer's, specification and drawing.	N/A	
18	Check striker plate fitted in case of sounding (well gauage) & filling pipe fitting,	N/A	
19	Check floating suction is fitted & operable.	N/A	
20	Check Drain lines are led to drainage system	ok	
21	Check internal paintwork/lining for damage.	N/A	
22	Check manhole gasket material.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdelsadek
SIGNATURE	Tarek	[signature]	M. A. Sadek
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
23	Check external paintwork for damage	OK	
24	Check access to valves, gauges, etc.	OK	
25	Check plug or blanks fitted to drain valves.	OK	
26	Check internal surface smoothness are compliant with design requirements.	N/A	
27	Confirm that sacrificial anodes inside the tank are in correct position and are of correct specification.	N/A	
28	Check tank calibration is performed (if requested).	N/A	
29	Check Vent pipes or safety valves are operable.	OK	
30	Check Installation of level alarm devices/simulate signal.	OK	
31	Check Tank gauges.	OK	
32	Check Drain lines are clear.	OK	
33	ck Suction and discharge lines are flushed and cleaned.	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
34	Verify that all nozzles are open from inside and that they are not plugged or restricted with foreign articles , dirt ,..etc.	OK	
35	Replace the temporary gasket of man way with the designated one (if required), close the manhole and torque tighten its bolts.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	M.A. Sadek
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check Construction Punch lists and no subsequent damage occurred.	OK	
2	Check equipment against P& ID's.	OK	
3	Check installation against manufacturer's installation instructions and documents.	OK	
4	Check nameplate data .	PL	
5	Open the manhole and take out the volatile inhibitor, if there is any.	N/A	
6	Check tanks Alignment/position.	OK	
7	Check Heating coils and supports if fitted.	N/A	
8	Check Alignment and suspension of mixers if fitted.	N/A	
9	Check Height of skimmer pipes when fitted.	N/A	
10	Check Pressure/vacuum valves are operable.	OK	
11	Check Holding-down bolts tightness	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdel Saleh
SIGNATURE	[signature]	[signature]	M.A. Saleh
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check Tank Cleanliness.	ok	
13	Check Purge lines are operable and correctly fitted.	ok	
14	Check Recirculation system is flushed and clean.	ok	
15	Check Overflow lines are led to closed drains or sump tank.	N/A	
16	Check tank floating roof is free from obstacles hindering rolling ladder movement.	N/A	
17	Check that all internals are to manufacturer's, specification and drawing.	N/A	
18	Check striker plate fitted in case of sounding (well gauage) & filling pipe fitting,	N/A	
19	Check floating suction is fitted & operable.	N/A	
20	Check Drain lines are led to drainage system	ok	
21	Check internal paintwork/lining for damage.	N/A	
22	Check manhole gasket material.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdel Salem
SIGNATURE	[signature]	[signature]	M.A. Salem
DATE			

10000-Z-000-EK7-TMP-0121 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
23	Check external paintwork for damage	OK	
24	Check access to valves, gauges, etc.	OK	
25	Check plug or blanks fitted to drain valves.	OK	
26	Check internal surface smoothness are compliant with design requirements.	N/A	
27	Confirm that sacrificial anodes inside the tank are in correct position and are of correct specification.	N/A	
28	Check tank calibration is performed (if requested).	N/A	
29	Check Vent pipes or safety valves are operable.	OK	
30	Check Installation of level alarm devices/simulate signal.	OK	
31	Check Tank gauges.	OK	
32	Check Drain lines are clear.	OK	
33	ck Suction and discharge lines are flushed and cleaned.	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdel Salem
SIGNATURE	[signature]	[signature]	M.A. Salem
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
FIXED TANKS
PV-04 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: PressureVessel
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-T-11C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
34	Verify that all nozzles are open from inside and that they are not plugged or restricted with foreign articles , dirt ,..etc.	ok	
35	Replace the temporary gasket of man way with the designated one (if required), close the manhole and torque tighten its bolts.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Abdallah Fathy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	M. A. Sadek
DATE			

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

9- Mechanical Commissioning

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

9.01- Final Alignment Certificates

PETROJET Enppi بتروجت

REQUEST FOR INSPECTION
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CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 17/05/2021

26 B

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

* Paralleism Check for 030-P-015A Diesel fire water Pump.

Time : 10:00 AM Date 18/05/2021

Reference Documents # :

Paralleism Report

CONTRACTOR Comment:

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI (Mec/PK)	PMC
Name	Karim Ayman	Haytham Afr / A. El Sally	Mohamed Abdelsalll
Sign.	K. Ay	[signature] / [signature]	M.A. Sall
Date	18-5-2021	18/5/2021 / 18/5/2021	

ROTATING EQUIPMENT ALIGNMENT

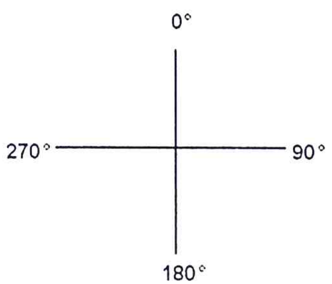
FLANGE PARALLELISM

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

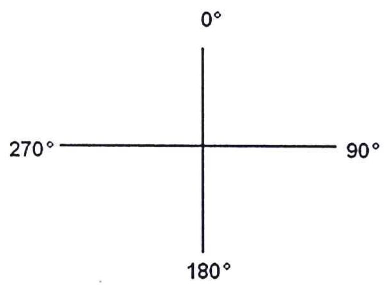
PETROJET — Enppi — EGPC — Petroleum Pipelines Company شركة أنابيب البترول

Equip Tag No.:	030-P-15 A	DWG No.:	
Equip. Desc.:	Diesel Fire water Pump	DATE :	18-5-2020
Area/Unit:	028		

PARALLEISM READING



SUCTION FLANGE



DISCHARGE FLANGE

FLANGE PARALLELISM		
	SUCTION FLANGE (12) INCH	DISCHARGE FLANGE (8) INCH
0	3.55	3.75
90	3.55	3.85
180	3.50	3.90
270	3.50	3.85

REMARKS/NOTES: In case leakage during start up retighten shall be done.
Torque value = 400 N/m² as advised by ~~PP~~ Petson Mesc

TORQUE TIGHTENING	
SUCTION FLANGE (12) INCH	DISCHARGE FLANGE (8) INCH
400 N/M^2	400 N/M^2

	PETROJET	ENPPI	/ Mesc	PMC
NAME	KARIM Aymen	HaythamAfr	A. elsalhy	Mohamed Abdel Saleh
Signature	[signature]	[signature]	[signature] 18/5/2021	[signature]
Date	19-5-2021	18/5/2021	18/5/2021	

PETROJET Enppi بتروجت

REQUEST FOR INSPECTION
RFI

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 13/4/ 2021

026 A

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation		
2	☐ Structure	6	☐ Instrument	10	☐ HVAC		
3	☐ Electrical	7	☑ Survey	11	☐ General		
4	☑ Mechanical	8	☐ Architecture	12	☐ Other		

Description of work that requires to be inspected

Level Check for : 030-P-15A

DIESEL FIRE PUMP

Time :

Date 13 / 4/ 2021

Reference Documents # :

Mechanical Drawing : D03-152163

Leveling Servey Report.

CONTRACTOR Comment:

Release for Base plate Grout.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif	Abdallah Fathy	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

Q.C Civil
Mahmoud abdelaziz

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET بتروجت | Enppi

Project : **INSPECTION SURVEYING REPORT**

RIT No : ____ Report No : ____ Area : 030

STRUCTURE / ELEMENT : 030 - P - 15A DESCRIPTION : Diesel fire water Pump

DWG : D03 - 152163 Rev : ____ Status : ____

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Auto level		AT - B2X	ZG 3504	
Section				

NO	THIORITICAL	ACTUAL	
A	102.403	102.402	-1
B	102.403	102.400	-3
C	102.403	102.401	-2
D	102.403	102.403	-2

↑ N

A B

D C

REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif Mostafa	Abdallah Fathy	M. Saleh
SIGN.			
DATE			

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET بتروجت | Enppi

Project : **INSPECTION SURVEYING REPORT**

RIT No : ______ Report No : ______ Area : 030

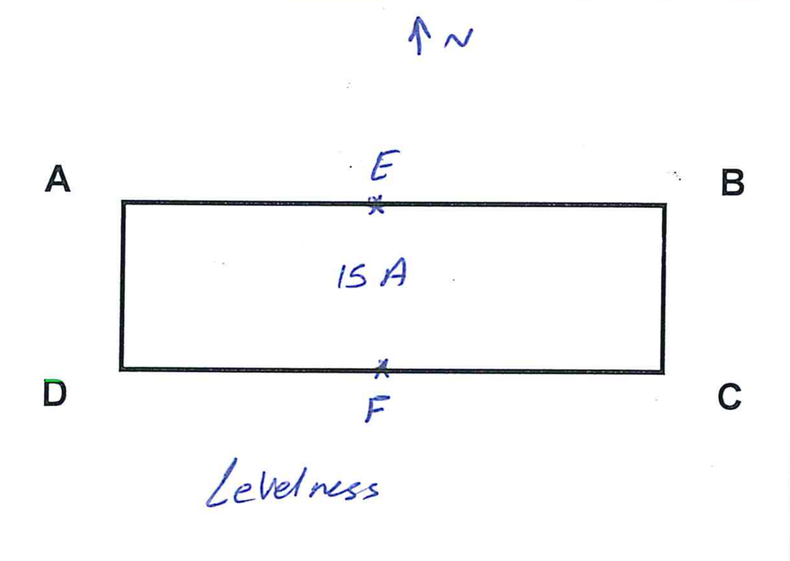
STRUCTURE / ELEMENT : 030-P-15A DESCRIPTION : Diesel fire water Pump

DWG : D03-152163 Rev : ______ Status : ______

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Section				

NO	THIORITICAL	ACTUAL	
A	,607		
B	,608		
C	,608		
D	,608		
E	,608		
F	,608		
Levelness Diviation ≥ 1mm			



REFERENCE SKETCHES AND/OR ATTACHMENTS :

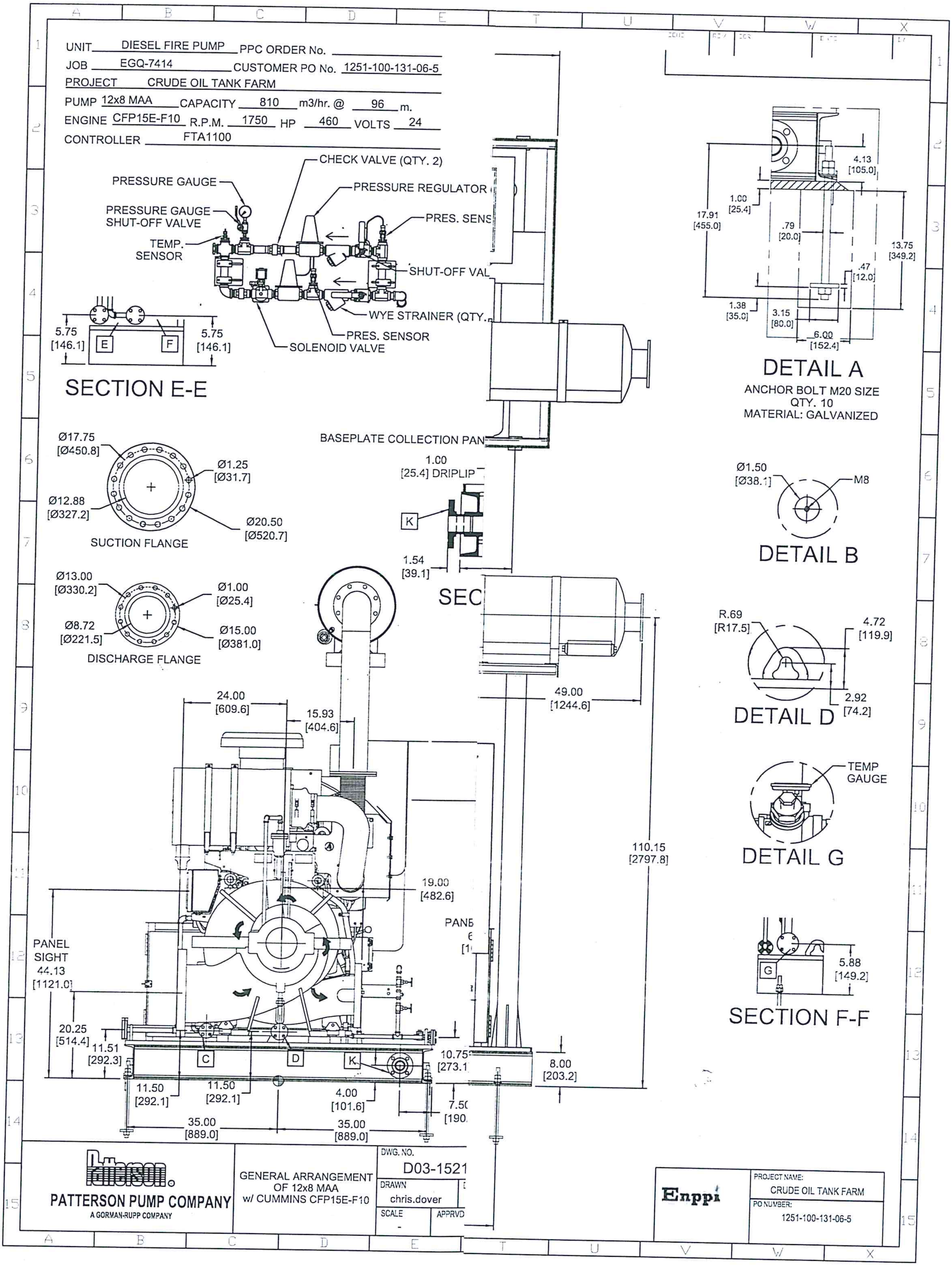
SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME		Abdallah Fathy	M. Saleh
SIGN.	[signature]	[signature]	[signature]
DATE			


UNIT DIESEL FIRE PUMP PPC ORDER No.
JOB EGQ-7414 CUSTOMER PO No. 1251-100-131-06-5
PROJECT CRUDE OIL TANK FARM
PUMP 12x8 MAA CAPACITY 810 m3/hr. @ 96 m.
ENGINE CFP15E-F10 R.P.M. 1750 HP 460 VOLTS 24
CONTROLLER FTA1100
CHECK VALVE (QTY. 2)
PRESSURE GAUGE
PRESSURE REGULATOR
PRESSURE GAUGE SHUT-OFF VALVE
TEMP. SENSOR
SHUT-OFF VAL
WYE STRAINER (QTY.
PRES. SENSOR
SOLENOID VALVE
SECTION E-E
SUCTION FLANGE
DISCHARGE FLANGE
BASEPLATE COLLECTION PAN
1.00 [25.4] DRIPLIP
DETAIL A
ANCHOR BOLT M20 SIZE
QTY. 10
MATERIAL: GALVANIZED
DETAIL B
DETAIL D
TEMP GAUGE
DETAIL G
SECTION F-F
PANEL SIGHT
GENERAL ARRANGEMENT OF 12x8 MAA w/ CUMMINS CFP15E-F10
PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY
DWG. NO. D03-1521
DRAWN chris.dover
SCALE
APPRVD
Enppi
PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5

PETROJET بتروجت Enppi

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 6/3/2021

026

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Axis and Elevation check for : 030 - P - 15 A

DIESEL FIRE PUMP

Time :

Date 6/3/2021

Reference Documents # :

* Mechanical DWG No D03-152163
* Plot Plan : 01251-100-030-KPR-002
* Survey Report and elevation Report are attached
* Pump Tag No. against serial No attached

CONTRACTOR Comment:

* Pump Tag No. Missing *

Release for Pocket Grout "ONLY"

The work are: ☑ Accepted ☑ Accepted with comment ☐ Rejected

	PETROJET	Review ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	for / Abdullah Fathy	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

QA/QC civil
Hesham Eid

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET بتروجت | Enppi

Project :

INSPECTION SURVEYING REPORT

RIT No : ____ Report No : ____ Area : 030

STRUCTURE / ELEMENT : 030-P-15 A DESCRIPTION : Diesel Fire Water Pump

DWG : D03-152163 Rev : ____ Status : ____

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Auto level		AT-B2X	ZG 3504	
Section				

NO	THIORITICAL	ACTUAL	
A	102.403	102.402	-1
B	102.403	102.400	-3
C	102.403	102.401	-2
D	102.403	102.401	-2

↑ N

A B

D C

REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif Mostafa	Review / Abdallah Fathy	M. Saleh
SIGN.	Tarek.		
DATE			

PETROJET	EQUIPMENT SURVEY REPORT EGPC NEW CRUDE OIL TANKS FARM AGRROOD	Enppi

RFI No :

Location : AREA 30

Module 1

Date : 06-03-21

Report No.

Structure : EQUIPMENT SURVEY REPORT FOR DIESEL FIRE WATER PUMPS (P-15 ABC)

1- Coordinates

NO	Coordinates (Drawing) C.L DISCH			Coordinates (Actual)				
	Easting	Northing		Easting	Northing	Diff- E	Diff - N	Tolerance
DIESEL FIRE WATER PUMPS (P-15 A)	372.066	701.700		372.066	701.699	0.000	0.001	
DIESEL FIRE WATER PUMPS (P-15 B)	372.066	692.700		372.066	692.700	0.000	0.000	
DIESEL FIRE WATER PUMPS (P-15 C)	372.066	683.700		372.065	683.700	0.001	0.000	

2-Elevation

NO.	As Per DWG (T.O.G)	Actual	Diff	Tolerance	NO.	As Per DWG	Actual	Diff	Tolerance
DIESEL FIRE WATER PUMPS (P-15 A)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
DIESEL FIRE WATER PUMPS (P-15 B)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
DIESEL FIRE WATER PUMPS (P-15 C)	1020.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					

COMMENT

PETROJET			Review ENPPI	PMS
Surveyor	Construction	QA/QC		M. Saieh
Signature	Signature	Signature	Signature	Signature

Reply all | Delete Junk | ...

flanges and pumps itself , plastic sheet had been ordered once we received it will be covered ISA.

Regarding jockey pump is not used and the installed is for RAS Shokeir area, so please replace with Agrood areas which are already in ware house is under discussion with project management

By next week site construction team is ready to grout and level pump skids .So you are kindly requested to arrange to mobilize vendor rep. to site if he like to attend this works . please advise the arrival time 48 hours in advance to prepare the crane and crew.

Other comments are noted and will be implemented

Fathy Shawky

From: Haytham Mamdouh
Sent: Thursday, October 15, 2020 9:12 AM
To: Amr Youssef; Hisham El Mogy
Cc: Mohamed El Saadawy; Shaimaa Sayed; Ahmed El Borady; Shady Mohamed Sherif; Ahmed Abdelkariem; Mohamed Reda Ali; Moataz Kehella; Mohamed Abass Ali Elhadidi; Fathy Shawky; Islam Fouad
Subject: RE: SIR NO.25 & SIR NO.26 need to be closed Agrood project-bad installation condition .

Dear All,

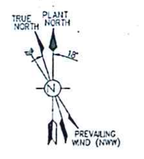
In addition to the previously submit mail. Kindly find the attached Packing list to proceed with generating the SIRs and submit it for us to be issued. Also, the Packing, Shipping, Storage, Lifting and Installation procedure to be considered.

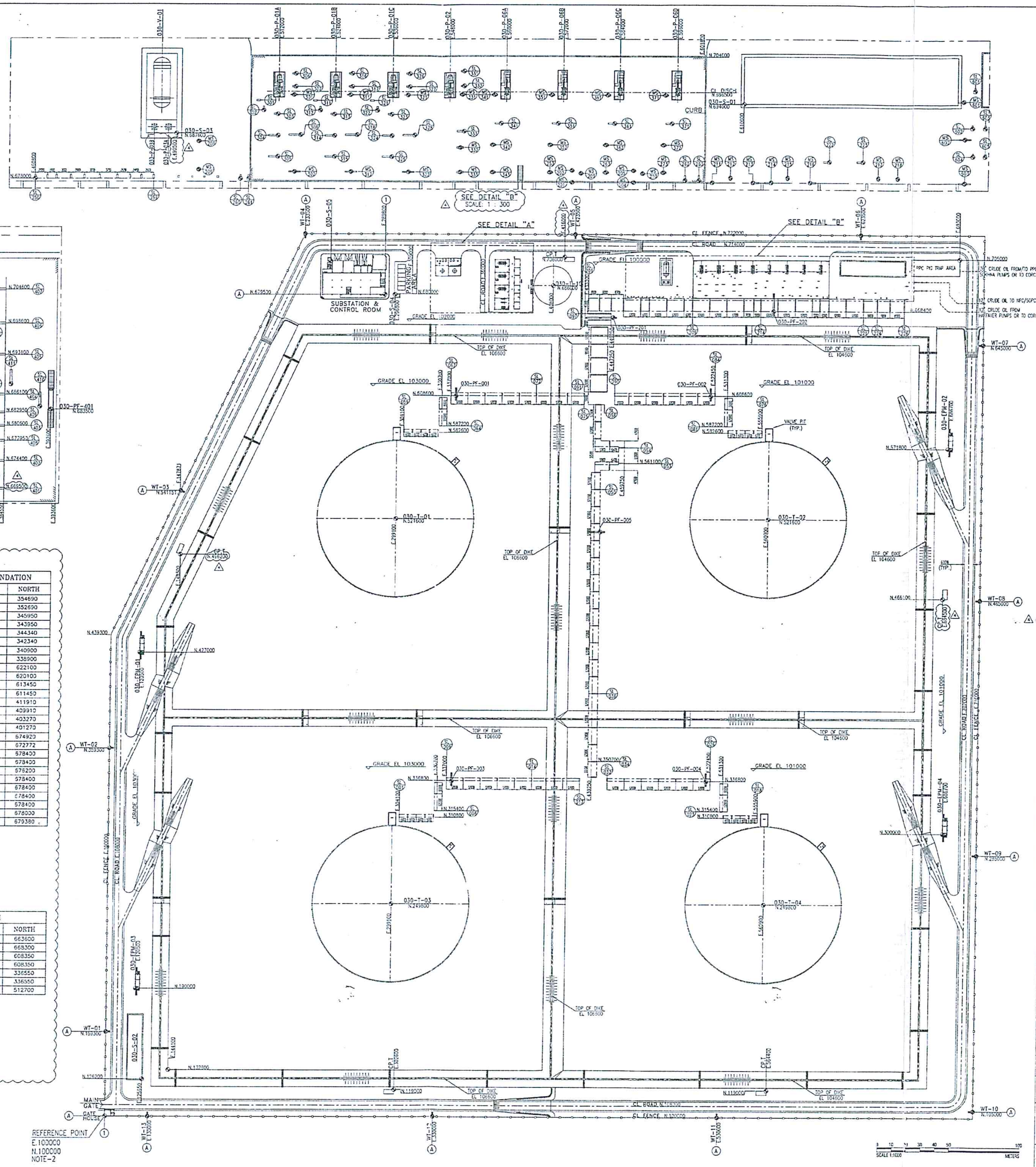
Please notice the following (special care for pump preservation shall be considered in items 4,5, 6 below for areas)

1. The pumps shall be installed in their proper location according to their tag numbers. The following table shows the pump serial against the tag-no for your consideration -the pump main name plate contains the serial number only
   (Note: marked-Up with red items is requested to correctly positioned)-.

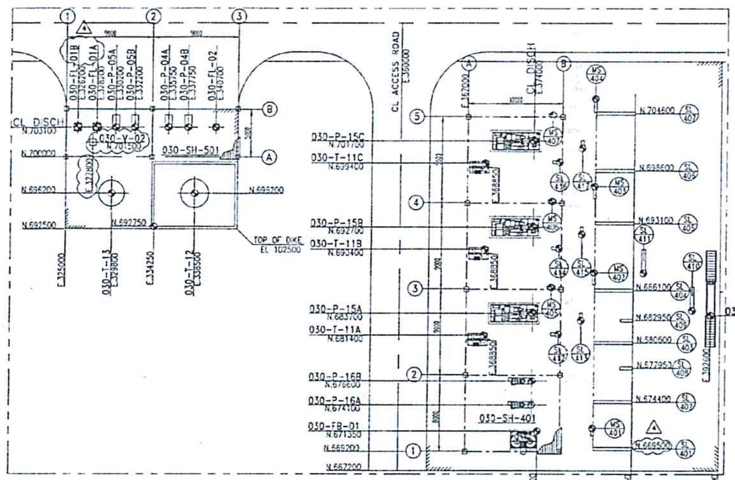
Area	Pump Tag No.	Pump Serial No.	Installation Status
Diesel Fire Pumps			
Ras Shukier (010)	010-P-015 A	FP-C000188138-01-01	Un-Installed
	010-P-015 B	FP-C000188138-01-02	Un-Installed
	010-P-015 C	FP-C000188138-01-03	Un-Installed
Agrood Module 1 (030)	030-P-015 A	FP-C000188136-01-04	Un-Installed
	030-P-015 B	FP-C000188136-01-05	Un-Installed
	030-P-015 C	FP-C000188136-01-06	Un-Installed
Agrood Module 2 (031)	031-P-015 A	FP-C000188136-01-07	Installed in wrong position
	031-P-015 B	FP-C000188136-01-08	Installed in wrong position
	031-P-015 C	FP-C000188136-01-09	Installed in wrong position
Jockey Pumps			
Ras Shukier (010)	010-P-016 A	FP-C0192195-01	Installed in Agrood M2
	010-P-016 B	FP-C0192195-02	Installed in Agrood M2
Agrood Module 1 (030)	030-P-016 A	FP-C0192196-03	Un-Installed
	030-P-016 B	FP-C0192196-04	Un-Installed
Agrood	031-P-016 A	FP-C0192196-05	Un-Installed

Enppi Abdullah Fathy





SEE DETAIL "B"
SCALE 1 : 300



SEE DETAIL "A"
SCALE: 1 : 250

PIPE SLEEPERS		
SL NO.	EAST	NORTH
SL-222	628150	681800
SL-223	635150	681800
SL-260	504050	678000
SL-261	505750	678000
SL-262	597700	677850
SL-263	600650	677850
SL-302	508800	692500
SL-303	511800	691700
SL-304	511850	687150
SL-305	511850	682700
SL-306	515550	700300
SL-307	515550	697550
SL-308	516650	687300
SL-312	520800	692500
SL-313	523800	691700
SL-314	523850	687150
SL-315	523850	682700
SL-316	527550	700300
SL-317	527550	697550
SL-318	528650	687300
SL-322	532800	692500
SL-323	535800	691700
SL-324	535850	687150
SL-325	535850	682700
SL-326	539550	700300
SL-327	539550	697550
SL-328	540650	687300
SL-331	551050	700900
SL-332	551050	697750
SL-333	551100	688150
SL-341	557850	689850
SL-351	569850	689850
SL-361	581850	689850
SL-371	593850	689850
SL-410	390700	684000
SL-411	385600	687900
SL-412	376750	681500
SL-413	379150	682950
SL-414	376750	690500
SL-415	379150	691950
SL-416	376750	699500
SL-417	379150	700950
SL-601	658500	696900
SL-602	658000	689050
SL-603	660700	689050
SL-604	658100	683050
SL-605	660700	683050

MISCELLANEOUS PIPE SUPPORTS		
MS NO.	EAST	NORTH
MS-201	574000	677400
MS-202	574000	679900
MS-203	575900	679300
MS-204	587000	677400
MS-205	587000	679900
MS-208	495240	685900
MS-209	495240	679900
MS-210	588900	679300
MS-211	603450	677400
MS-212	607250	678400
MS-213	612050	677400
MS-214	615900	677400
MS-215	619300	678400
MS-216	624050	677400
MS-217	638500	678400
MS-218	642600	578400
MS-301	515200	695800
MS-302	515400	679500
MS-311	527200	695800
MS-312	527400	679500
MS-321	539200	695800
MS-322	539400	679500
MS-331	550700	695950
MS-332	550300	684700
MS-333	550300	679500
MS-341	557500	695900
MS-342	557200	685300
MS-343	557200	679500
MS-351	569500	695900
MS-352	569200	685300
MS-353	569200	679500
MS-361	581500	695900
MS-362	581200	685300
MS-363	581200	679500
MS-371	593500	695900
MS-372	593200	685300
MS-373	593200	679500
MS-401	380450	671600
MS-402	380450	687900
MS-403	380450	696900
MS-404	380450	706150
MS-405	375950	686400
MS-406	375950	695400
MS-407	375950	704400
MS-601	656200	694650
MS-602	656500	686700
MS-603	656500	677400

CONCRETE FOUNDATION		
CF NO.	EAST	NORTH
CF-401	691270	354690
CF-402	691270	352690
CF-403	691270	345950
CF-404	691270	343950
CF-405	120790	344340
CF-406	120790	342340
CF-407	120790	340900
CF-408	120790	338900
CF-409	691270	622100
CF-410	691270	620100
CF-411	691270	613450
CF-412	691270	611450
CF-413	120790	411910
CF-414	120790	409910
CF-415	120790	403270
CF-416	120790	401270
CF-417	235500	674920
CF-419	234545	672772
CF-420	452630	578400
CF-422	450280	678400
CF-201	550700	576200
CF-202	499300	578400
CF-203	496450	678400
CF-204	493900	678400
CF-205	491000	578400
CF-206	457500	678000
CF-208	457500	679380

PLATFORM		
PF NO.	EAST	NORTH
PF-201	450750	663600
PF-202	563000	668300
PF-001	340550	608350
PF-002	519450	608350
PF-003	340550	336550
PF-004	519450	336550
PF-005	443500	512700

REFERENCES

DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KPP-001	OVERALL SITE PLAN
01251-100-030-AEL-01	PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01	PROCESS FLOW DIAGRAM

NOTES

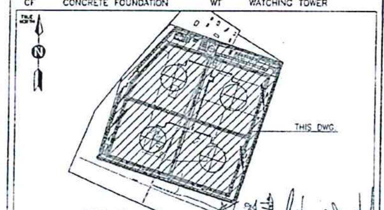
1- ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PLANT COORDINATES N 100000 MM & E 100000 MM ARE EQUIVALENT TO UTM SYSTEM N 3326453000 & E 440751000 REFERENCED FROM CONSTRUCTION CONTRACTOR (PETROJET CO.) SURVEY DRAWINGS.
3- HPFS ELEVATION 100000 IS EQUIVALENT TO TRUE ELEVATION 117000 ABOVE MEAN SEA LEVEL.
4- ALL SLEEPERS AND MISCELLANEOUS SUPPORT ARE PREFIXED WITH AREA NUMBER (030). △4
5- WATCHING TOWER COLUMN CENTERLINE ON SAME FENCE CENTERLINE.
6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED.
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT.

EQUIPMENT LIST

EQUIP. NO.	DESCRIPTION	ELEVATION REFERENCE
ELECTRICAL EQUIPMENT		
030-EPM-01 / 03	ELECTRICAL POWER MODULE	TOC EL 104500
030-EPM-02 / 04	ELECTRICAL POWER MODULE	TOC EL 102500
FILTERS		
030-FL-01A/B	POTABLE/UTILITIES WATER FILTERS	TOC EL 102200
030-FL-02	DIESEL OIL FILTER	TOC EL 102200
MIXERS		
030-MX-01A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-01) MIXER	-
030-MX-02A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-02) MIXER	-
030-MX-03A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-03) MIXER	-
030-MX-04A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-04) MIXER	-
PACKAGES		
030-FB-01	FOAM BLADDER SKID	TOC EL 102200
PUMPS		
030-P-01A/B/C	CRUDE OIL BOOSTER PUMPS	TOC EL 100200
030-P-02	CRUDE OIL MEDIUM DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-06A/B/C/D	CRUDE OIL HIGH DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-03A/B	CLOSED DRAIN PUMPS	TOC EL 100200
030-P-04A/B	DIESEL OIL TRANSFER PUMPS	TOC EL 102175 △4
030-P-05A/B	POTABLE/UTILITIES WATER FEED PUMPS	TOC EL 102150 △4
030-P-15A/B/C	DIESEL FIRE WATER PUMPS	TOC EL 102200
030-P-16A/B	FIRE WATER JOCKEY PUMPS	TOC EL 102200
SUMPS		
030-S-01	OPEN DRAIN SUMP	TOC EL 100200
030-S-02	OPEN DRAIN SUMP	TOC EL 103200
030-S-03	CLOSED DRAIN SUMP	TOC EL 100200
030-S-04	SANITARY SEWAGE COLLECTION SUMP	TOC EL 102200
030-S-05	TRANSFORMERS OIL COLLECTING SUMP	TOC EL 102200
TANKS		
030-T-01/03	CRUDE OIL STORAGE TANK	TOC EL 103600
030-T-02/04	CRUDE OIL STORAGE TANK	TOC EL 101600
030-T-10	FIRE WATER TANK	TOC EL 102500
030-T-11A/B/C	FIRE WATER PUMPS DIESEL TANKS	TOC EL 102800
030-T-12	DIESEL TANK	TOC EL 102600 △4
030-T-13	POTABLE/UTILITIES WATER STORAGE TANK	TOC EL 102500
VESSELS		
030-V-01	CLOSED DRAIN DRUM	TOC EL 92400
030-V-02	POTABLE/UTILITIES WATER SUPPLY VESSEL	TOC EL 102500

LEGEND

Symbol	Meaning	Abbr.	Meaning
	CONCRETE PAVING LIMITS	CB	CONCRETE BLOCK SUPPORT
	EXISTING FACILITIES	CL	CENTER LINE
	GRATING	CP.T	CATHODIC PROTECTION TRANSFORMER
	MATCH LINE	DISCH	PUMP DISCHARGE NOZZLE
	NEW FACILITIES	EL	ELEVATION
	MAINTENANCE ACCESS/ DROP AREA	FOF	FACE OF FLANGE
	REFERENCE POINT	FS	FIXED SADDLE
	GRADE SLOPE	HPFP	HIGH POINT OF FINISHED PAVING
	ROAD SLOPE	MS	MISCELLANEOUS SUPPORT
	PRECAST CONCRETE FENCE	PF	PLATFORM
TOC	TOP OF CONCRETE	SH	SUN SHADE
TOS	TOP OF STEEL	SL	SLEEPER
CF	CONCRETE FOUNDATION	WT	WATCHING TOWER



KEY PLAN

REV	DATE	DESCRIPTION	PROCESS	LOSS PREV (PTD)	INSTRUMENT	ELECTRICAL	CIVIL/OFFSHORE	MECHANICAL	CONST.SUP.	PIPING	DEPT.MGR	DIV.G.MGR	PEM
4	AUG 12 2020	REISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
3	MAR 08 2020	ISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
2	NOV 14 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
1	OCT 15 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
0	SEP 19 2019	ISSUED FOR DESIGN	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.

EGPC

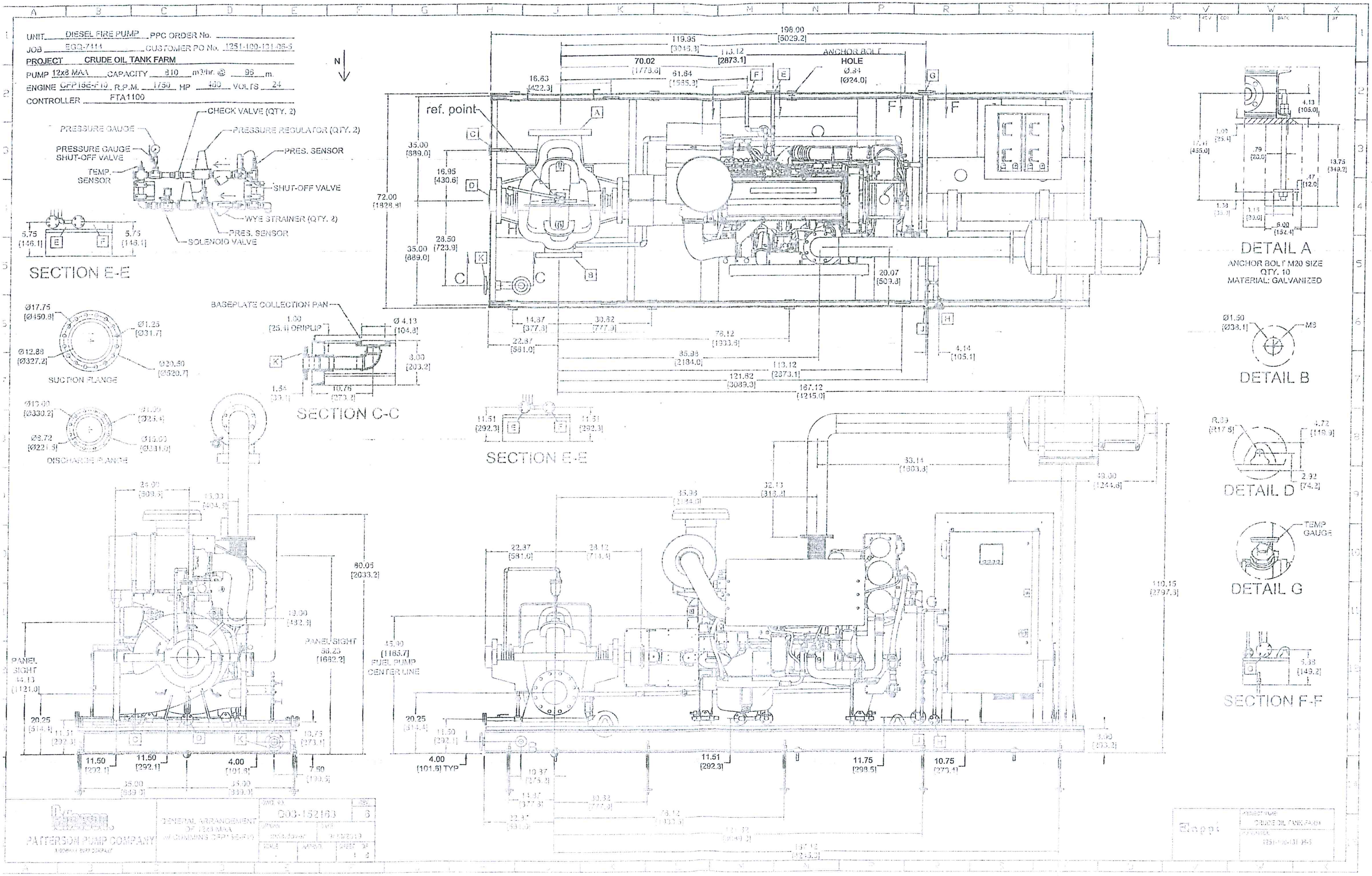
COMPANY PROJ. No. : N/A	FOR : EGPC	لاجـل الهيئة المصرية العامة للبترول
ENPPI PROJ. No. : 01251-100	AT : AGROOD, SUEZ	الموقع عجرود السويس

CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	ENPPI DRAWING NUMBER	SHEET	REVISION
1:1000	01251-100-030-KPP-002	01/01	4

A0 SIZE: 1189 X 841


UNIT DIESEL FIRE PUMP PPC ORDER No.
JOB EGQ-7114 CUSTOMER PO No. 1251-100-121-06-5
PROJECT CRUDE OIL TANK FARM
PUMP 12x8 MAA CAPACITY 810 m3/hr. @ 96 m.
ENGINE CFP15E-F10 R.P.M. 1750 HP 460 VOLTS 24
CONTROLLER FTA1100
CHECK VALVE (QTY. 2)
PRESSURE GAUGE
PRESSURE REGULATOR (QTY. 2)
PRESSURE GAUGE SHUT-OFF VALVE
PRES. SENSOR
TEMP. SENSOR
SHUT-OFF VALVE
WYE STRAINER (QTY. 2)
PRES. SENSOR
SOLENOID VALVE
SECTION E-E
ref. point
ANCHOR BOLT HOLE
BASEPLATE COLLECTION PAN
SUCTION FLANGE
DISCHARGE FLANGE
SECTION C-C
SECTION E-E
DETAIL A
ANCHOR BOLT M20 SIZE
QTY. 10
MATERIAL: GALVANIZED
DETAIL B
DETAIL D
TEMP GAUGE
DETAIL G
SECTION F-F
PANEL SIGHT
FUEL PUMP CENTER LINE
GENERAL ARRANGEMENT OF 12x8 MAA w/ CUMMINS CFP15E-F10
C03-152163
PATTERSON PUMP COMPANY

PETROJET Enppi بتروجت

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: .17/5 /2021

27 B

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

* Parallelism check For 030-P-15B Diesel Fire water Pump

Time : 11:30 AM Date 18/5/2021

Reference Documents # :

Parallelism Report

CONTRACTOR Comment:

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI / Msc (PPC)	PMC
Name	Karim Adham	Haytham Afr. / A. elsally	Mohamed Khaled Saleh
Sign.	[signature]	[signature] / [signature]	[signature]
Date	18-5-2021	18/5/2021 / 18/5/2021	

PETROJET بتروجت | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

ROTATING EQUIPMENT ALIGNMENT

FLANGE PARALLELISM

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Equip Tag No.:	030-P-15 B	DWG No.:	
Equip. Desc.:	Diesel Fire water Pump	DATE :	18-5-2021
Area/Unit:	028		

PARALLEISM READING

SUCTION FLANGE: 0° / 90° / 180° / 270°

DISCHARGE FLANGE: 0° / 90° / 180° / 270°

FLANGE PARALLELISM		
	SUCTION FLANGE (12) INCH	DISCHARGE FLANGE (8) INCH
0	4.75	3.80
90	4.85	3.90
180	4.85	3.85
270	4.75	3.95

TORQUE TIGHTENING	
SUCTION FLANGE (12) INCH	DISCHARGE FLANGE (8) INCH
400 N/M^2	400 N/M^2

REMARKS/NOTES: In case leakage during start UP retighten shall be done
Torque Value = 400 N/m² as advised by Peterson/Mesc

	PETROJET	ENPPI / MESC		PMC
NAME	Karim Ayman	Haitham Afr	A. elsalhy	Mohamed Abdel Saddl
Signature	[signature]	[signature]	[signature] 18/5/2021	[signature]
Date	18-5-2021	18/5/2021	18/5/2021	

PETROJET Enppi بتروجت

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 6/3/2021

027

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Axis and Elevation check for: 030-P-15B

DIESEL FIRE PUMP

Time :

Date 6/3/2021

Reference Documents # :

Mechanical DWG: D03-152163

* Plot Plan: 01251-100-030-KPP-002

* survey Report and elevation Report are attached

* Pump Tag No. against serial No. attached

CONTRACTOR Comment:

* Pump Tag No. Missing *

Release for Pocket Grout "ONLY"

The work are: ☐ Accepted ☑ Accepted with comment ☐ Rejected

	PETROJET	Review ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	For/ Abdullah Fathy	M. Saleh
Sign.	Tarek.	[signature]	[signature]
Date			

Q.A/Q.C civil
Hesham Eid

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET بتروجت | Enppi

Project : **INSPECTION SURVEYING REPORT**

RIT No : ____________ Report No : ____________ Area : 030

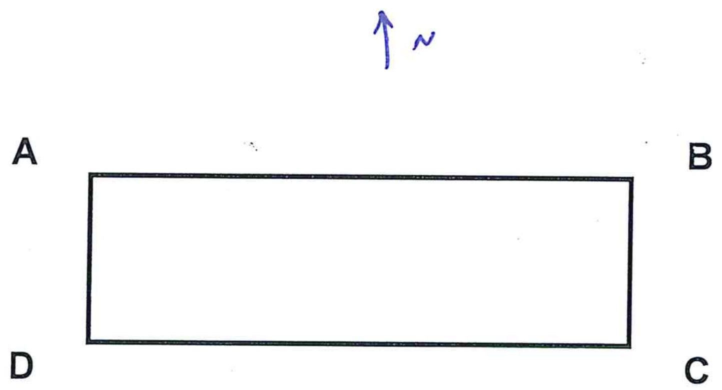
STRUCTURE / ELEMENT : 030 - P - 15B DESCRIPTION : Diesel Fire water Pump

DWG : D03 - 152163 Rev : ________ Status : ________

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Auto level		AT-B2X	ZG 3504	
Section				

NO	THIORITICAL	ACTUAL	
A	102.403	102.403	0
B	102.403	102.404	+1
C	102.403	102.404	+1
D	102.403	102.400	0



REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif Mostafa	Review For / Abdullah Fathy	M. Saleh
SIGN.			
DATE	Tarek.		

PETROJET	EQUIPMENT SURVEY REPORT EGPC NEW CRUDE OIL TANKS FARM AGRROOD	Enppi

RFI No :

Location : AREA 30

Module 1

Date : 06-03-21

Report No.

Structure : EQUIPMENT SURVEY REPORT FOR DIESEL FIRE WATER PUMPS (P-15 ABC)

1- Coordinates

NO	Coordinates (Drawing) C.L DISCH			Coordinates (Actual)				
	Easting	Northing		Easting	Northing	Diff- E	Diff - N	Tolerance
DIESEL FIRE WATER PUMPS (P-15 A)	372.066	701.700		372.066	701.699	0.000	0.001	
DIESEL FIRE WATER PUMPS (P-15 B)	372.066	692.700		372.066	692.700	0.000	0.000	
DIESEL FIRE WATER PUMPS (P-15 C)	372.066	683.700		372.065	683.700	0.001	0.000	

2-Elevation

NO.	As Per DWG (T.O.G)	Actual	Diff	Tolerance	NO.	As Per DWG	Actual	Diff	Tolerance
DIESEL FIRE WATER PUMPS (P-15 A)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
DIESEL FIRE WATER PUMPS (P-15 B)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
DIESEL FIRE WATER PUMPS (P-15 C)	1020.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					

COMMENT

PETROJET			ENPPI	PMS
Surveyor	Construction	QA/QC	Review	M. Saleh
Signature	Signature	Signature	Signature	Signature

Reply all | Delete Junk | ...

flanges and pumps itself , plastic sheet had been ordered once we received it will be covered ISA.

Regarding jockey pump is not used and the installed is for RAS Shokeir area, so please replace with Agrood areas which are already in ware house is under discussion with project management

By next week site construction team is ready to grout and level pump skids .So you are kindly requested to arrange to mobilize vendor rep. to site if he like to attend this works . please advise the arrival time 48 hours in advance to prepare the crane and crew

Other comments are noted and will be implemented

Fathy Shawky

From: Haytham Mamdouh
Sent: Thursday, October 15, 2020 9:12 AM
To: Amr Youssef; Hisham El Mogy
Cc: Mohamed El Saadawy; Shaimaa Sayed; Ahmed El Borady; Shady Mohamed Sherif; Ahmed Abdelkariem; Mohamed Reda Ali; Moataz Kehella; Mohamed Abass Ali Elhadidi; Fathy Shawky; Islam Fouad
Subject: RE: SIR NO.25 & SIR NO.26 need to be closed Agrood project-bad installation condition

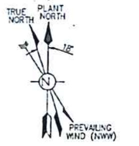
Dear All,

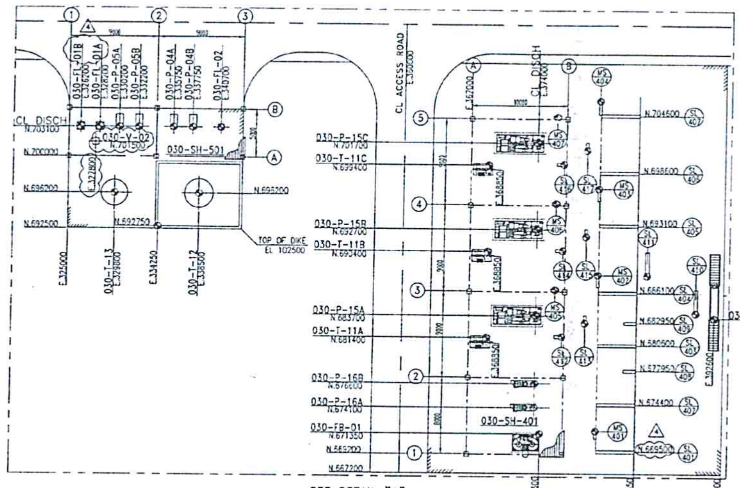
In addition to the previously submit mail, Kindly find the attached Packing list to proceed with generating the SIRs and submit is for us to be issued. Also, the Packing, Shipping, Storage, Lifting and Installation procedure to be considered.

Please notice the following (special care for pump preservation shall be considered in items 4,5, 6 below for areas)

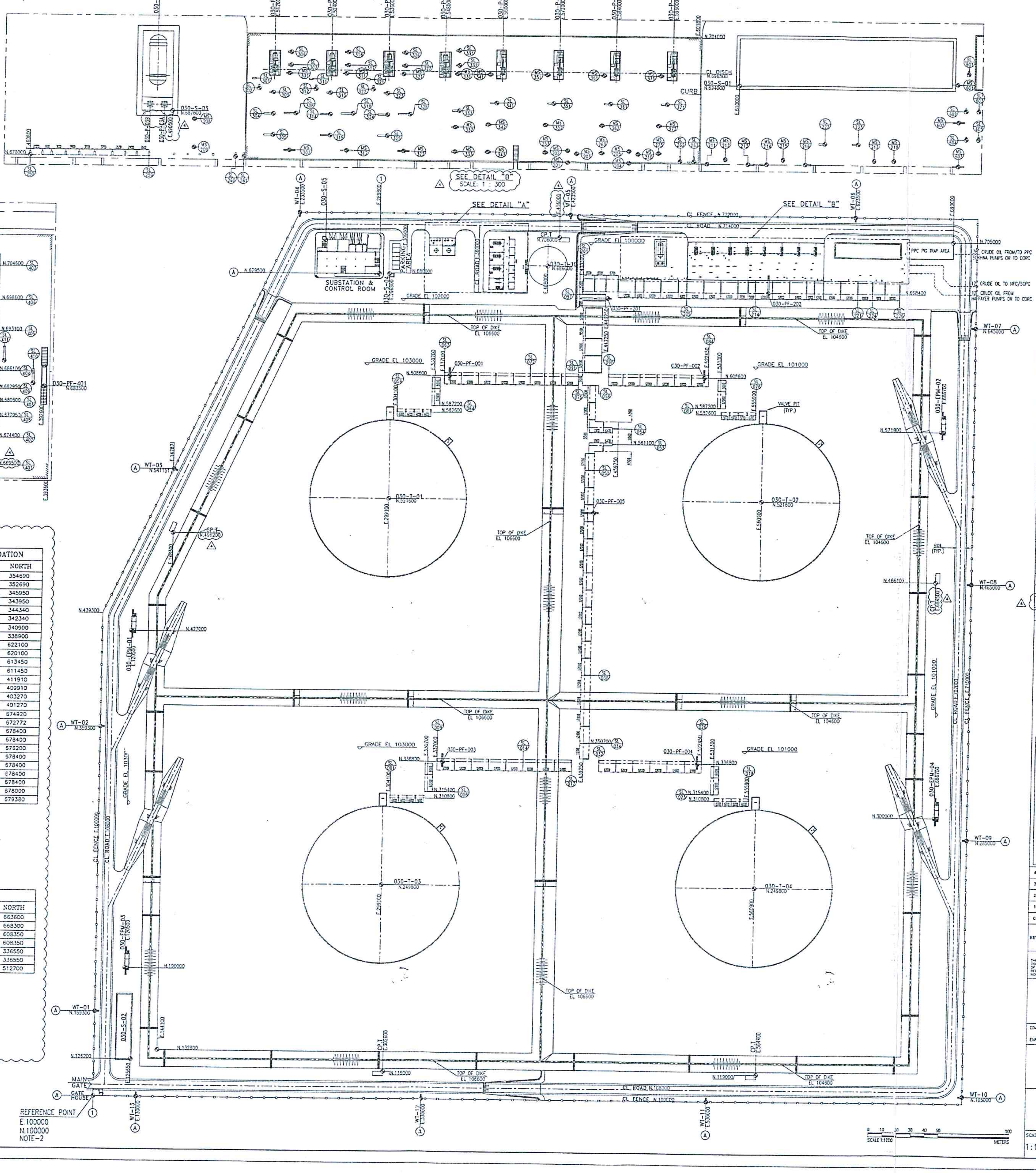
1. The pumps shall be installed in their proper location according to their tag numbers. The following table shows the pump serial against the tag-no. for your consideration -the pump main name plate contains the serial number only
   (Note: marked-Up with red items is requested to correctly positioned)-.

Area	Pump Tag No.	Pump Serial No.	Installation Status
Diesel Fire Pumps			
Ras Shukier (010)	010-P-015 A	FP-C000188138-01-01	Un-Installed
	010-P-015 B	FP-C000188138-01-02	Un-Installed
	010-P-015 C	FP-C000188138-01-03	Un-Installed
Agrood Module 1 (030)	030-P-015 A	FP-C000188136-01-04	Un-Installed
	030-P-015 B	FP-C000188136-01-05	Un-Installed
	030-P-015 C	FP-C000188136-01-06	Un-Installed
Agrood Module 2 (031)	031-P-015 A	FP-C000188136-01-07	Installed in wrong position
	031-P-015 B	FP-C000188136-01-08	Installed in wrong position
	031-P-015 C	FP-C000188136-01-09	Installed in wrong position
Jockey Pumps			
Ras Shukier (010)	010-P-016 A	FP-C0192195-01	Installed in Agrood M2
	010-P-016 B	FP-C0192195-02	Installed in Agrood M2
Agrood Module 1 (030)	030-P-016 A	FP-C0192196-03	Un-Installed
	030-P-016 B	FP-C0192196-04	Un-Installed
Agrood	031-P-016 A	FP-C0192196-05	Un-Installed





SEE DETAIL "A"
SCALE: 1 : 250



PIPE SLEEPERS		
SL NO.	EAST	NORTH
SL-222	628150	681800
SL-223	635150	681800
SL-260	504050	678000
SL-261	505750	678000
SL-262	597700	677850
SL-263	600650	677850
SL-302	508800	692500
SL-303	511800	691700
SL-304	511850	687150
SL-305	511850	682700
SL-306	515550	700300
SL-307	515550	697550
SL-308	516650	687300
SL-312	520800	692500
SL-313	523800	691700
SL-314	523850	687150
SL-315	523850	682700
SL-316	527550	700300
SL-317	527550	697550
SL-318	528550	687300
SL-322	532800	692500
SL-323	535800	691700
SL-324	535850	687150
SL-325	535850	682700
SL-326	539550	700300
SL-327	539550	697550
SL-328	540650	687300
SL-331	551050	700900
SL-332	551050	697750
SL-333	551100	688150
SL-341	557850	689850
SL-351	569850	689850
SL-361	581850	689850
SL-371	593850	689850
SL-410	390700	684000
SL-411	385600	687900
SL-412	376750	681500
SL-413	379150	682950
SL-414	376750	690500
SL-415	379150	691950
SL-416	376750	699500
SL-417	379150	700950
SL-601	658500	696900
SL-602	658000	689050
SL-603	660700	689050
SL-604	658100	683050
SL-605	660700	683050

MISCELLANEOUS PIPE SUPPORTS		
MS NO.	EAST	NORTH
MS-201	574000	677400
MS-202	574000	679900
MS-203	575900	679300
MS-204	587000	677400
MS-205	587000	679900
MS-208	495240	685900
MS-209	495240	679900
MS-210	588900	679300
MS-211	603450	677400
MS-212	607250	678400
MS-213	612050	677400
MS-214	615900	677400
MS-215	619300	678400
MS-216	624050	677400
MS-217	638500	678400
MS-218	642600	678400
MS-301	515200	695800
MS-302	515400	679500
MS-311	527200	695800
MS-312	527400	679500
MS-321	539200	695800
MS-322	539400	679500
MS-331	550700	695950
MS-332	550300	684700
MS-333	550300	679500
MS-341	557500	695900
MS-342	557200	685300
MS-343	557200	679500
MS-351	569500	695900
MS-352	569200	685300
MS-353	569200	679500
MS-361	581500	695900
MS-362	581200	685300
MS-363	581200	679500
MS-371	593500	695900
MS-372	593200	685300
MS-373	593200	679500
MS-401	380450	671600
MS-402	380450	687900
MS-403	380450	696900
MS-404	380450	706150
MS-405	375950	686400
MS-406	375950	695400
MS-407	375950	704400
MS-601	656200	694650
MS-602	656500	686700
MS-603	656500	677400

CONCRETE FOUNDATION		
CF NO.	EAST	NORTH
CF-401	691270	354690
CF-402	691270	352690
CF-403	691270	345950
CF-404	.691270	343950
CF-405	120790	344340
CF-406	120790	342340
CF-407	120790	340900
CF-408	120790	338900
CF-409	691270	622100
CF-410	691270	620100
CF-411	691270	613450
CF-412	691270	611450
CF-413	120790	411910
CF-414	120790	409910
CF-415	120790	403270
CF-416	120790	401270
CF-417	235500	674920
CF-419	234545	672772
CF-420	452630	678400
CF-422	450280	678400
CF-201	550700	676200
CF-202	499300	678400
CF-203	496450	678400
CF-204	493900	678400
CF-205	491000	678400
CF-206	457500	678000
CF-208	457500	679380

PLATFORM		
PF NO.	EAST	NORTH
PF-201	450750	663600
PF-202	563000	668300
PF-001	340550	608350
PF-002	519450	608350
PF-003	340550	336550
PF-004	519450	336550
PF-005	443500	512700

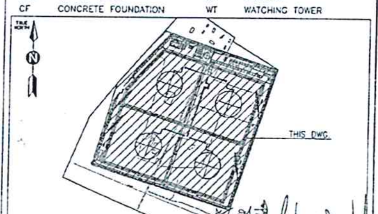
REFERENCES	
DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KPP-001	OVERALL SITE PLAN
01251-100-030-AEL-01	PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01	PROCESS FLOW DIAGRAM

NOTES

1- ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PLANT COORDINATES N 100000 MM & E 100000 MM ARE EQUIVALENT TO UTM SYSTEM N 3326453000 & E 440751000 REFERENCED FROM CONSTRUCTION CONTRACTOR (PETROJET CO.) SURVEY DRAWINGS.
3- HPFS ELEVATION 100000 IS EQUIVALENT TO TRUE ELEVATION 117000 ABOVE MEAN SEA LEVEL
4- ALL SLEEPERS AND MISCELLANEOUS SUPPORT ARE PREFIXED WITH AREA NUMBER (030).
5- WATCHING TOWER COLUMN CENTERLINE ON SAME FENCE CENTERLINE.
6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED.
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT.

EQUIPMENT LIST		
EQUIP. NO.	DESCRIPTION	ELEVATION REFERENCE
ELECTRICAL EQUIPMENT		
030-EPM-01 / 03	ELECTRICAL POWER MODULE	TOC EL 104500
030-EPM-02 / 04	ELECTRICAL POWER MODULE	TOC EL 102500
FILTERS		
030-FL-01A/B	POTABLE/UTILITIES WATER FILTERS	TOC EL 102200
030-FL-02	DIESEL OIL FILTER	TOC EL 102200
MIXERS		
030-MX-01A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-01) MIXER	-
030-MX-02A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-02) MIXER	-
030-MX-03A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-03) MIXER	-
030-MX-04A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-04) MIXER	-
PACKAGES		
030-FB-01	FOAM BLADDER SKID	TOC EL 102200
PUMPS		
030-P-01A/B/C	CRUDE OIL BOOSTER PUMPS	TOC EL 100200
030-P-02	CRUDE OIL MEDIUM DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-06A/B/C/D	CRUDE OIL HIGH DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-03A/B	CLOSED DRAIN PUMPS	TOC EL 100200
030-P-04A/B	DIESEL OIL TRANSFER PUMPS	TOC EL 102175
030-P-05A/B	POTABLE/UTILITIES WATER FEED PUMPS	TOC EL 102150
030-P-15A/B/C	DIESEL FIRE WATER PUMPS	TOC EL 102200
030-P-16A/B	FIRE WATER JOCKEY PUMPS	TOC EL 102200
SUMPS		
030-S-01	OPEN DRAIN SUMP	TOC EL 100200
030-S-02	OPEN DRAIN SUMP	TOC EL 103200
030-S-03	CLOSED DRAIN SUMP	TOC EL 100200
030-S-04	SANITARY SEWAGE COLLECTION SUMP	TOC EL 102200
030-S-05	TRANSFORMERS OIL COLLECTING SUMP	TOC EL 102200
TANKS		
030-T-01/03	CRUDE OIL STORAGE TANK	TOC EL 103600
030-T-02/04	CRUDE OIL STORAGE TANK	TOC EL 101600
030-T-10	FIRE WATER TANK	TOC EL 102500
030-T-11A/B/C	FIRE WATER PUMPS DIESEL TANKS	TOC EL 102800
030-T-12	DIESEL TANK	TOC EL 102600
030-T-13	POTABLE/UTILITIES WATER STORAGE TANK	TOC EL 102500
VESSELS		
030-V-01	CLOSED DRAIN DRUM	TOC EL 92400
030-V-02	POTABLE/UTILITIES WATER SUPPLY VESSEL	TOC EL 102500

LEGEND			
(symbol)	CONCRETE PAVING LIMITS	CB	CONCRETE BLOCK SUPPORT
(symbol)	EXISTING FACILITIES	CL	CENTER LINE
(symbol)	GRATING	CP.T	CATHODIC PROTECTION TRANSFORMER
(symbol)	MATCH LINE	DISCH	PUMP DISCHARGE NOZZLE
(symbol)	NEW FACILITIES	EL	ELEVATION
(symbol)	MAINTENANCE ACCESS/ DROP AREA	FOF	FACE OF FLANGE
(symbol)	REFERENCE POINT	FS	FIXED SADDLE
(symbol)	GRADE SLOPE	HPFP	HIGH POINT OF FINISHED PAVING
(symbol)	ROAD SLOPE	MS	MISCELLANEOUS SUPPORT
(symbol)	PRECAST CONCRETE FENCE	PF	PLATFORM
TOC	TOP OF CONCRETE	SH	SUN SHADE
TOS	TOP OF STEEL	SL	SLEEPER
CF	CONCRETE FOUNDATION	WT	WATCHING TOWER



KEY PLAN

REV	DATE	DESCRIPTION	PROCESS	LOSS PREV (PTD)	INSTRUMENT	ELECTRICAL	CIVIL/OFFSHORE	MECHANICAL	CONST.SUP.	PIPING	DEPT.MGR	DIV.G.MGR	PEM
4	AUG 12 2020	REISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
3	MAR 08 2020	ISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
2	NOV 14 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
1	OCT 15 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
0	SEP 19 2019	ISSUED FOR DESIGN	A.E.	M.N.	E.E.	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.

EGPC

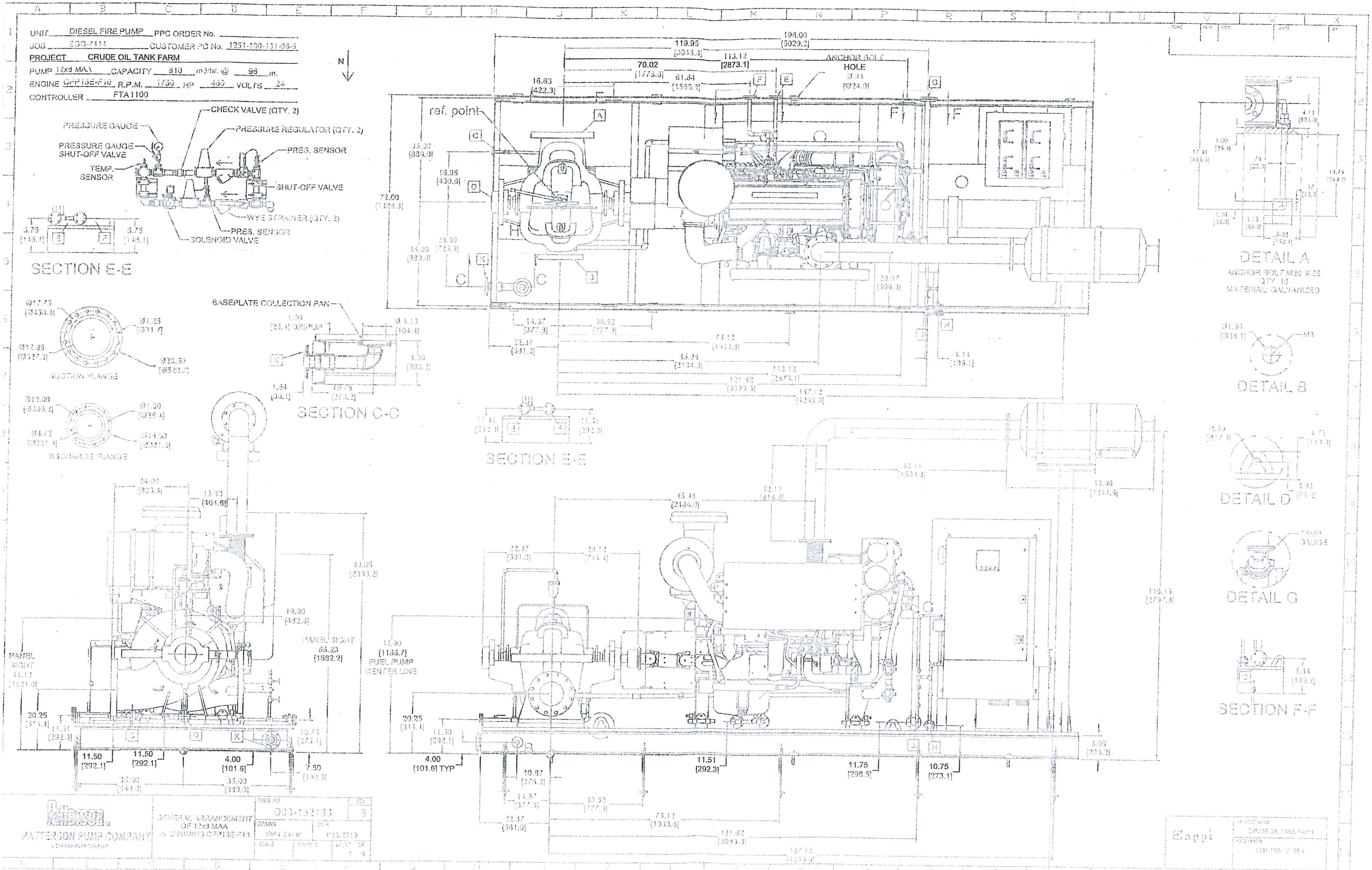
COMPANY PROJ. No. : N/A
ENPPI PROJ. No. : 01251-100
FOR : EGPC
AT : AGROOD, SUEZ
لاجل الهيئة المصرية العامة للبترول
الموقع عجرود السويس

CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	ENPPI DRAWING NUMBER	SHEET	REVISION
1:1000	01251-100-030-KPP-002	01/01	4

A0 SIZE: 1189 X 841


UNIT DIESEL FIRE PUMP PPC ORDER No.
JOB EGQ-7414 CUSTOMER PO No. 1251-100-131-06-5
PROJECT CRUDE OIL TANK FARM
PUMP 12x8 MAA CAPACITY 810 m3/hr. @ 96 m.
ENGINE CFP15E-F10 R.P.M. 1750 HP 460 VOLTS 24
CONTROLLER FTA1100
CHECK VALVE (QTY. 2)
PRESSURE GAUGE
PRESSURE REGULATOR (QTY. 2)
PRESSURE GAUGE SHUT-OFF VALVE
PRES. SENSOR
TEMP. SENSOR
SHUT-OFF VALVE
WYE STRAINER (QTY. 2)
PRES. SENSOR
SOLENOID VALVE
SECTION E-E
ref. point
ANCHOR BOLT HOLE
DETAIL A
ANCHOR BOLT M20 SIZE
QTY. 10
MATERIAL: GALVANIZED
BASEPLATE COLLECTION PAN
SUCTION FLANGE
SECTION C-C
DETAIL B
DISCHARGE FLANGE
SECTION E-E
DETAIL D
DETAIL G
PANEL SIGHT
FUEL PUMP CENTER LINE
SECTION F-F
PATTERSON PUMP COMPANY
GENERAL ARRANGEMENT OF 12x8 MAA W/ CUMMINS CFP15E-F10
DWG. NO. D03-152163
REV. 6
DRAWN chris dover
DATE 9/23/2019
SHEET 1 OF 6

PETROJET بتروجت Enppi

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 3/4/ 2021

027 A

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Level check for: 030-P-15 B

DIESEL FIRE PUMP

Time :

Date 3/4/ 2021

Reference Documents # :

Mechanical Drawing D03-152163

Leveling Survey Report.

CONTRACTOR Comment:

Release for Base plate Grout.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellaty	Fathy Abdallah Fathy	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

Q.C. Civil
Mahmoud abdelaziz

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET بتروجت | Enppi

Project : **INSPECTION SURVEYING REPORT**

RIT No : ____ Report No : ____ Area : 030

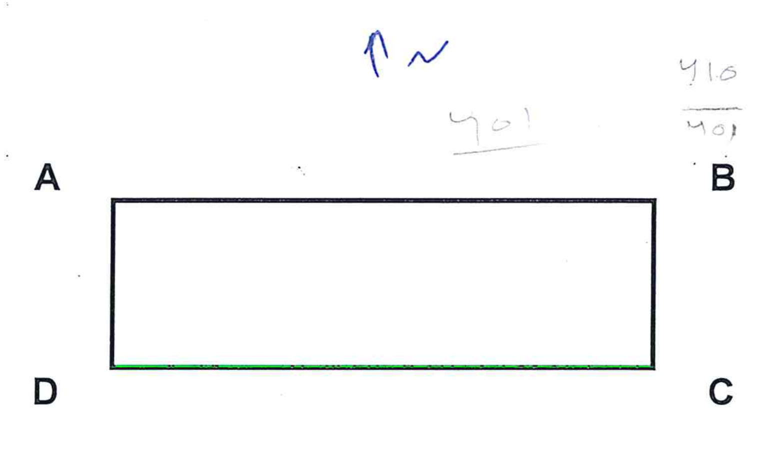
STRUCTURE / ELEMENT : 030-P-15B DESCRIPTION : Diesel fire water Pump

DWG : D03-152163 Rev : ____ Status : ____

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Auto level		AT-B2X	ZG-3504	
Section				

NO	THIORITICAL	ACTUAL	
A	102.403	102.403	0
B	102.403	102.404	+1
C	102.403	102.404	+1
D	102.403	102.400	0



REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif	Abdallah Fathy	M. Saleh
SIGN.	[signature]	[signature]	[signature]
DATE			

EGPC / Petroleum Pipelines Company شركة أنابيب البترول	CRUDE OIL TANK FARM PROJECT (AGROOD AREA)	PETROJET بتروجت / Enppi
Project :	**INSPECTION SURVEYING REPORT**	

RIT No : ______ Report No : ______ Area : 030

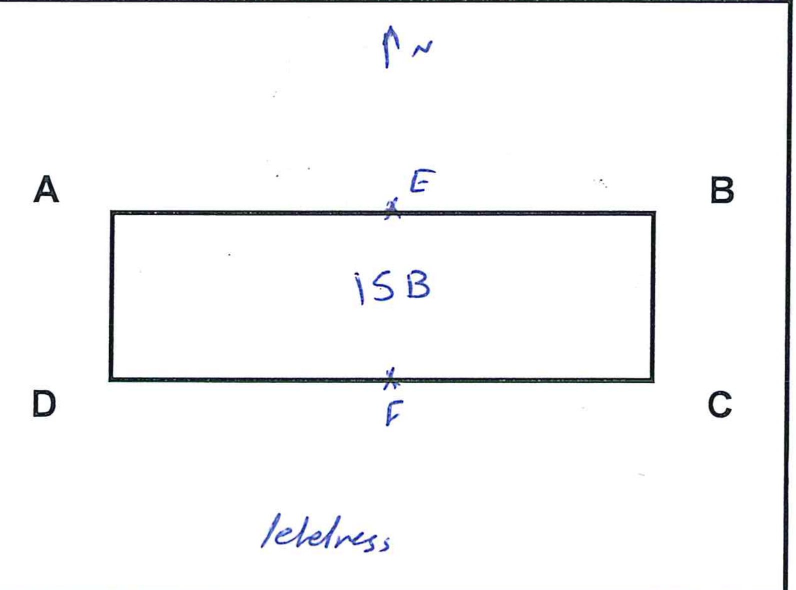
STRUCTURE / ELEMENT : 030-P-1SB DESCRIPTION : Diesel Fire water Pump

DWG : DC3-152163 Rev : ______ Status : ______

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Section				

NO	THIORITICAL	ACTUAL	
A	,134		
B	,130		
C	,131		
D	,130		
E	,130		
F	,131		
leveledness		1mm	



REFERENCE SKETCHES AND/OR ATTACHMENTS :

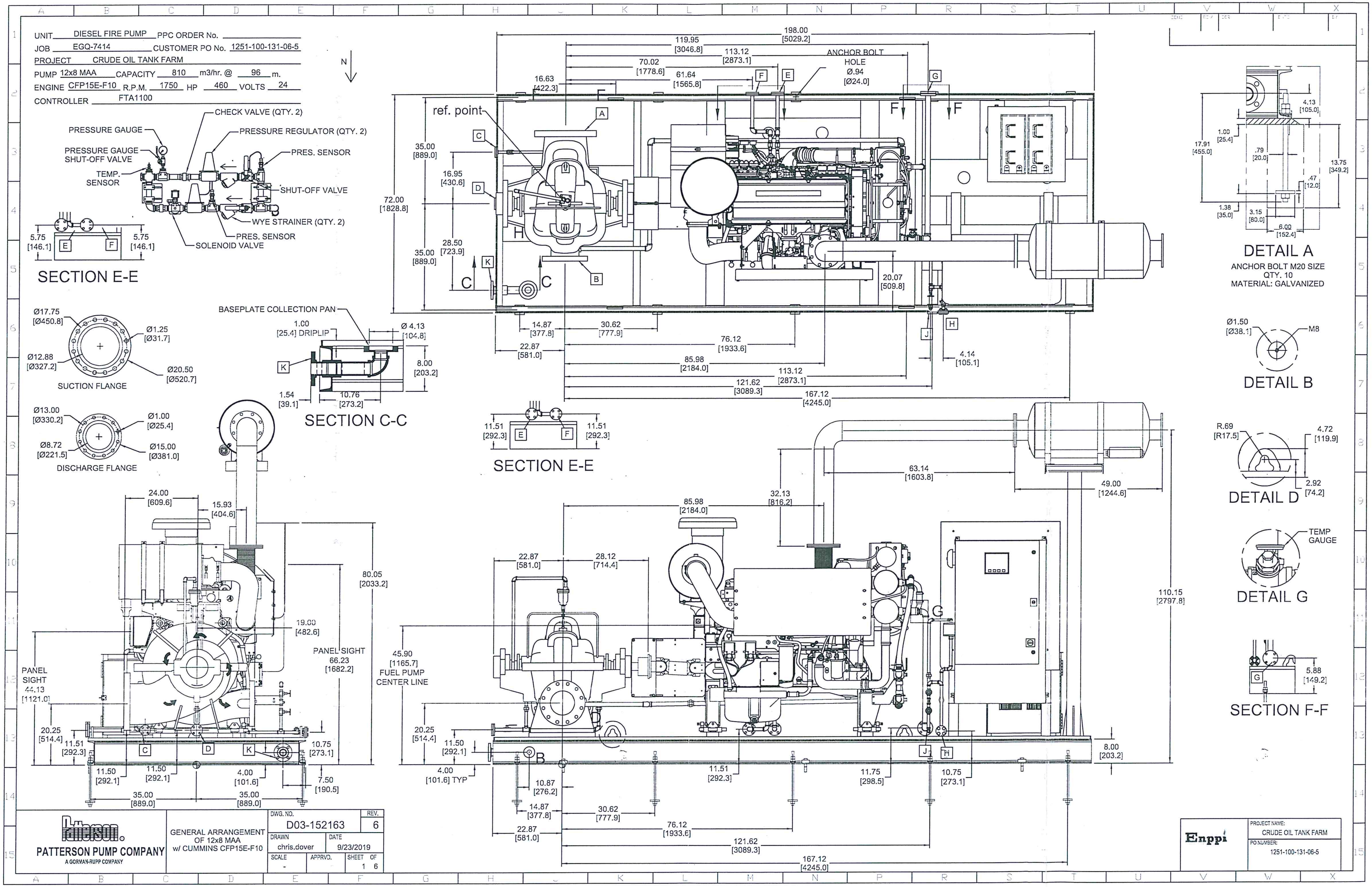
SURVEYOR Name - Signature

INSPECTION RESULTS :

- APPROVED ☑
- NOT APPROVED ☐
- APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME		Abdallah Fathy	M. Saleh
SIGN.	Taleb.	[signature]	[signature]
DATE			


UNIT DIESEL FIRE PUMP PPC ORDER No.
JOB EGQ-7414 CUSTOMER PO No. 1251-100-131-06-5
PROJECT CRUDE OIL TANK FARM
PUMP 12x8 MAA CAPACITY 810 m3/hr. @ 96 m.
ENGINE CFP15E-F10 R.P.M. 1750 HP 460 VOLTS 24
CONTROLLER FTA1100
CHECK VALVE (QTY. 2)
PRESSURE GAUGE
PRESSURE REGULATOR (QTY. 2)
PRESSURE GAUGE SHUT-OFF VALVE
PRES. SENSOR
TEMP. SENSOR
SHUT-OFF VALVE
WYE STRAINER (QTY. 2)
PRES. SENSOR
SOLENOID VALVE
SECTION E-E
SUCTION FLANGE
DISCHARGE FLANGE
BASEPLATE COLLECTION PAN
1.00 [25.4] DRIPLIP
SECTION C-C
ref. point
ANCHOR BOLT HOLE Ø.94 [Ø24.0]
DETAIL A
ANCHOR BOLT M20 SIZE
QTY. 10
MATERIAL: GALVANIZED
DETAIL B
DETAIL D
TEMP GAUGE
DETAIL G
SECTION F-F
PANEL SIGHT 44.13 [1121.0]
PANEL SIGHT 66.23 [1682.2]
45.90 [1165.7] FUEL PUMP CENTER LINE
4.00 [101.6] TYP
PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY
GENERAL ARRANGEMENT OF 12x8 MAA w/ CUMMINS CFP15E-F10
DWG. NO. D03-152163
REV. 6
DRAWN chris.dover
DATE 9/23/2019
SCALE -
APPRVD.
SHEET 1 OF 6
Enppi
PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5

PETROJET بتروجت Enppi | REQUEST FOR INSPECTION RFI | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 7/7/2021

028 B

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☐ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Parallelsim check for 030-P-15C Diesel fire water Pump

Time :

Date 7/7/2021

Reference Documents # :

Parallelsim Report

CONTRACTOR Comment:

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI / MESC	PMC
Name	Tarek Abdellatif	Haytham Mandor	Mohamed Abdel Sadek
Sign.	[signature]	[signature]	[signature]
Date		7/7/2021	7/07/2021

PETROJET بتروجت | Enppi

ROTATING EQUIPMENT ALIGNMENT

FLANGE PARALLELISM

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

Equip Tag No.:	030 - P-15C	DWG No.:	
Equip. Desc.:	Diesel fire water Pump	DATE :	
Area/Unit:	030		

PARALLEISM READING

SUCTION FLANGE: 0° / 90° / 180° / 270°

DISCHARGE FLANGE: 0° / 90° / 180° / 270°

FLANGE PARALLELISM		
	SUCTION FLANGE (12) INCH	DISCHARGE FLANGE (8) INCH
0	4.30	3.60
90	4.30	3.45
180	4.40	3.50
270	4.10	3.40

REMARKS/NOTES:

TORQUE TIGHTENING	
SUCTION FLANGE (12) INCH	DISCHARGE FLANGE (8) INCH
400 N/M^2	400 N/M^2

	PETROJET	ENPPI / MESC	PMC
NAME	Tarek Abdellatif Mostafa	Eng. Ehsan Mandouh / [illegible] 2021	Mohamed Abdel Sadek
Signature	[signature]	[signature]	[signature]
Date	[signature]	2/7/2021	7/07/2021

PETROJET بتروجت Enppi

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 01/05/2021

028 B

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Parallelism check for 030-P-15C Diesel Fire water Pump

Time :

Date 01/05/2021

Reference Documents # :

Parallelism Report

CONTRACTOR Comment:

Final alignment to be done by vendor.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	for / Abdullah Fathy	M. Saleh
Sign.	Tarek.	[signature]	[signature]
Date			

PETROJET بتروجت Enppi

ROTATING EQUIPMENT ALIGNMENT
FLANGE PARALLELISM
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

EGPC — Petroleum Pipelines Company شركة أنابيب البترول

Equip Tag No.:	030 - P - 15C		
Equip. Desc.:	Diesel Fire water Pump	DWG No.:	
Area/Unit:		DATE :	01/05/2021
			.028 B

PARALLEISM READING

0° / 270° — 90° / 180°

SUCTION FLANGE

0° / 270° — 90° / 180°

DISCHARGE FLANGE

FLANGE PARALLELISM		
	SUCTION FLANGE (12) INCH	DISCHARGE FLANGE (8) INCH
0	5.80	5.35
90	5.90	5.20
180	5.80	5.25
270	5.95	5.35
gasket	4.95	4.95

REMARKS/NOTES:

Final alignment to be done by vendor

TORQUE TIGHTENING	
SUCTION FLANGE (12) INCH	DISCHARGE FLANGE (8) INCH
1292 N/M^2	563 N/M^2

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif Mostafa.	(R) for / Abdullah Fathy	M. Saleh
Signature	Tarek	[signature]	[signature]
Date			01/05/2021

PETROJET بتروجت Enppi

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)

Date: 3/ 4/ 2021

028 A

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Level check for : 030-P-15C
DIESEL FIRE PUMP

Time :

Date 3 / 4/ 2021

Reference Documents # :

Mechanical Drawing no: D03-15.2163.
Levelness Survey Report.

CONTRACTOR Comment:

Release for Base Plate Grout.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif	Abdallah Fathy	M. Saleh
Sign.	Tarek	for [signature]	[signature]
Date			

Q.C Civil
Mahmoud abdelaziz

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)

PETROJET بتروجت | Enppi

Project :

INSPECTION SURVEYING REPORT

RIT No : ______ Report No : ______ Area : 030

STRUCTURE / ELEMENT : 030-P-15C

DWG : D03-152163

DESCRIPTION : Diesel fire water Pump

Rev : ______ Status : ______

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Auto level		AT-B2A	ZG-3504	
Section				

NO	THIORITICAL	ACTUAL	
A	102.403	102.402	-1
B	102.403	102.404	+1
C	102.403	102.404	+1
D	102.403	102.404	+1

↑ N

A B

D C

REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif	Abdallah Fathy	M. Saleh
SIGN.	Tarek	[signature]	[signature]
DATE			

EGPC / Petroleum Pipelines Company	CRUDE OIL TANK FARM PROJECT (AGROOD AREA)	PETROJET / Enppi
Project :	**INSPECTION SURVEYING REPORT**	

RIT No : ________ Report No : ________ Area : 030

STRUCTURE / ELEMENT : 030-P-15C DESCRIPTION : Diesel Fire water Pump

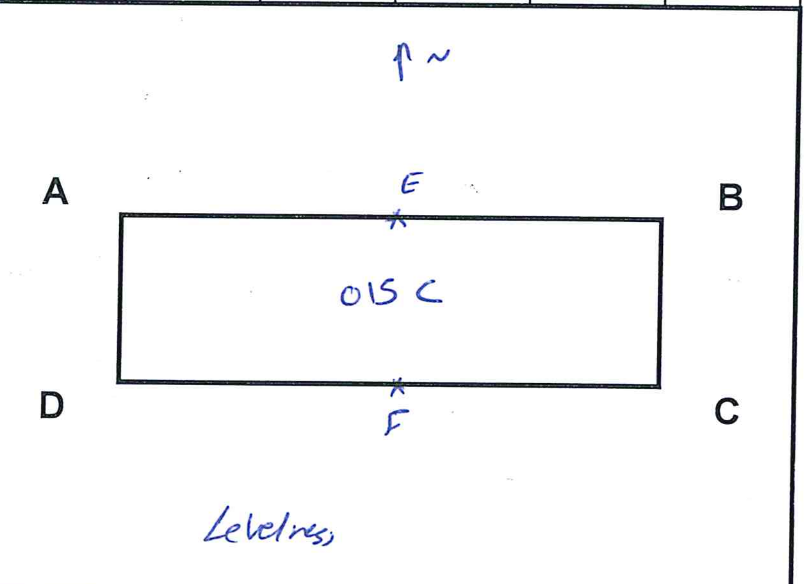
DWG : D03-152163 Rev : ________ Status : ________

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Auto level		AT-B2X	2G-3504	
Section				

NO	THIORITICAL	ACTUAL	
A	,029		
B	,030		
C	,029		
D	,030		
E	,029		
F	,030		

Levelness Div 1mm



REFERENCE SKETCHES AND/OR ATTACHMENTS :

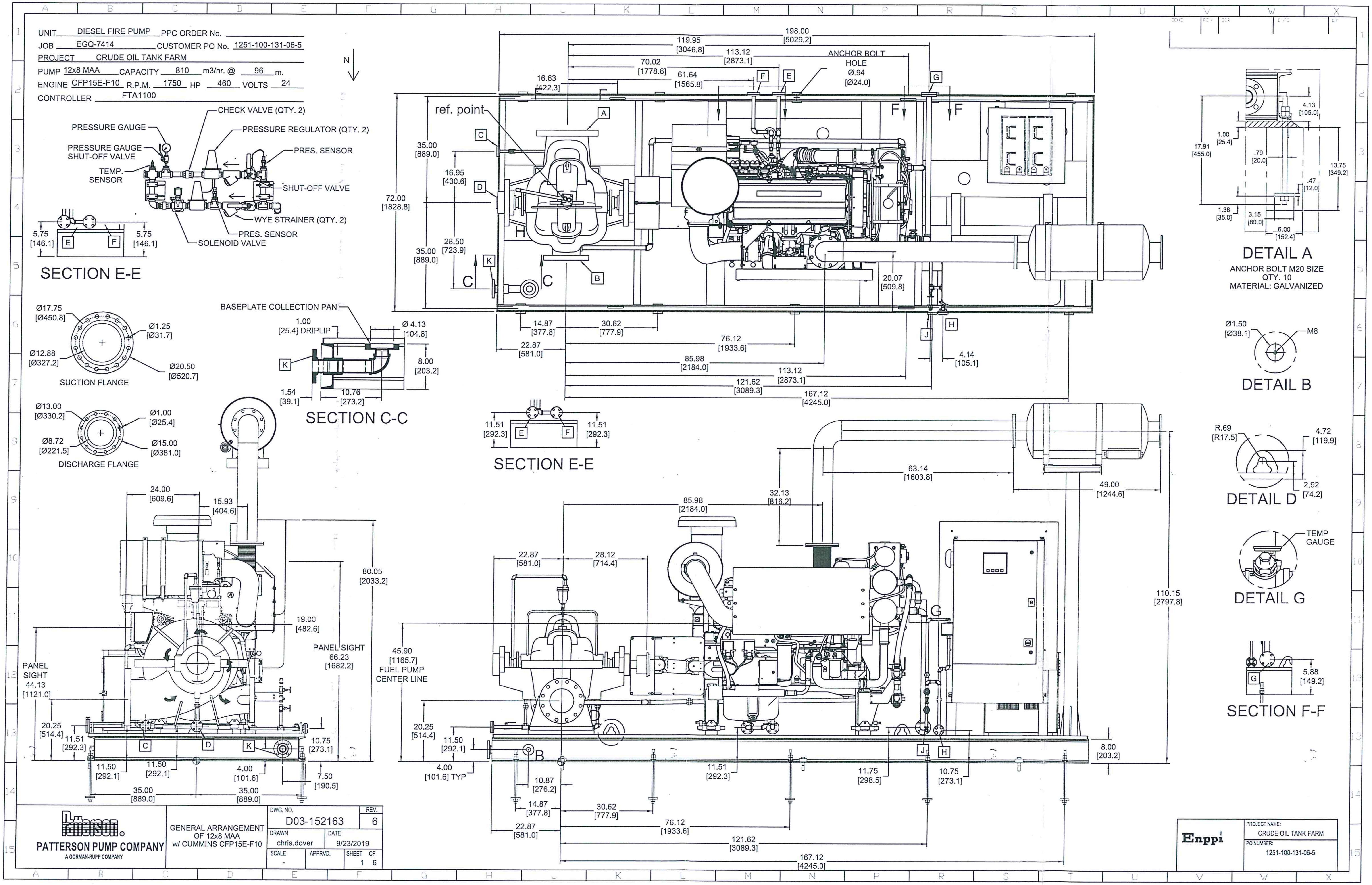
SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME		Abdallah Fathy	M. Saleh
SIGN.			
DATE			


UNIT DIESEL FIRE PUMP PPC ORDER No.
JOB EGQ-7414 CUSTOMER PO No. 1251-100-131-06-5
PROJECT CRUDE OIL TANK FARM
PUMP 12x8 MAA CAPACITY 810 m3/hr. @ 96 m.
ENGINE CFP15E-F10 R.P.M. 1750 HP 460 VOLTS 24
CONTROLLER FTA1100
CHECK VALVE (QTY. 2)
PRESSURE GAUGE
PRESSURE REGULATOR (QTY. 2)
PRESSURE GAUGE SHUT-OFF VALVE
PRES. SENSOR
TEMP. SENSOR
SHUT-OFF VALVE
WYE STRAINER (QTY. 2)
PRES. SENSOR
SOLENOID VALVE
SECTION E-E
SUCTION FLANGE
DISCHARGE FLANGE
BASEPLATE COLLECTION PAN
DRIPLIP
SECTION C-C
SECTION E-E
ref. point
ANCHOR BOLT HOLE Ø.94 [Ø24.0]
DETAIL A
ANCHOR BOLT M20 SIZE
QTY. 10
MATERIAL: GALVANIZED
DETAIL B
DETAIL D
TEMP GAUGE
DETAIL G
SECTION F-F
PANEL SIGHT
FUEL PUMP CENTER LINE
PATTERSON PUMP COMPANY
A GORMAN-RUPP COMPANY
GENERAL ARRANGEMENT OF 12x8 MAA w/ CUMMINS CFP15E-F10
DWG. NO. D03-152163
REV. 6
DRAWN chris.dover
DATE 9/23/2019
SCALE -
APPRVD.
SHEET 1 OF 6
Enppi
PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5

PETROJET بتروجت Enppi

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 6/3/2021

028

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Axis and Elevation check for: 030-P-45C

DIESEL FIRE WATER PUMP

Time :

Date 6/3/2021

Reference Documents # :

Mechanical DWG no D03-15216.3
Plot Plan: 0125-100-030-KPP-002
Survey Report and elevation Report are attached
Pump Tag No. against Serial No. attached

CONTRACTOR Comment:

* Pump Tag No. Missing *

Release for Pocket Grout "ONLY"

The work are: ☐ Accepted ☑ Accepted with comment ☐ Rejected

	PETROJET	Review ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	for / Abdullah Fathy	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

Q.A/Q.C civil
Hesham Eid
[signature]

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET بتروجت | Enppi

Project : **INSPECTION SURVEYING REPORT**

RIT No : ______ Report No : ______ Area : 030

STRUCTURE / ELEMENT : 030 - P - 15 C DESCRIPTION : Diesel fire water Pump

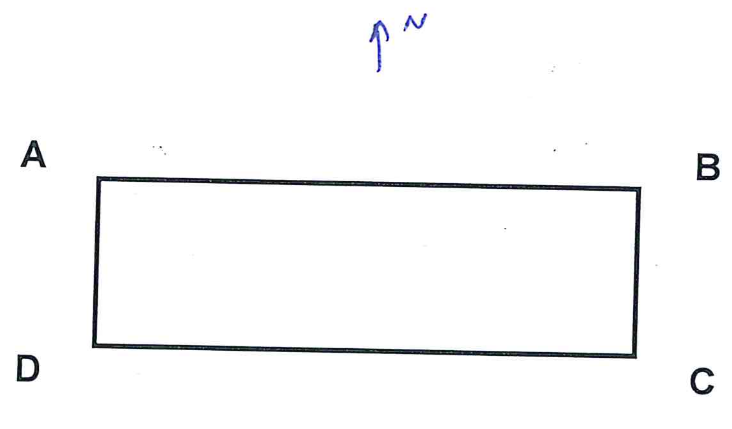
DWG : ______ Rev : ______ Status : ______

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS
Auto level		AT - B2X	ZG 3504	

Section

NO	THIORITICAL	ACTUAL	
A	102.403	102.402	-1
B	102.403	102.4031	+1
C	102.403	102.404	+1
D	102.403	102.404	+1



REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif Mostafa.	Review For/ Abdullah Fathy	M. Saleh
SIGN.			
DATE	Tarek.		

PETROJET

EQUIPMENT SURVEY REPORT

EGPC NEW CRUDE OIL TANKS FARM AGRROOD

Enppi

RFI No :

Date : 06-03-21

Location : AREA 30

Report No.

Module 1

Structure : EQUIPMENT SURVEY REPORT FOR DIESEL FIRE WATER PUMPS (P-15 ABC)

1- Coordinates

NO	Coordinates (Drawing) C.L DISCH			Coordinates (Actual)				
	Easting	Northing		Easting	Northing	Diff- E	Diff - N	Tolerance
DIESEL FIRE WATER PUMPS (P-15 A)	372.066	701.700		372.066	701.699	0.000	0.001	
DIESEL FIRE WATER PUMPS (P-15 B)	372.066	692.700		372.066	692.700	0.000	0.000	
DIESEL FIRE WATER PUMPS (P-15 C)	372.066	683.700		372.065	683.700	0.001	0.000	

2-Elevation

NO.	As Per DWG (T.O.G)	Actual	Diff	Tolerance	NO.	As Per DWG	Actual	Diff	Tolerance
DIESEL FIRE WATER PUMPS (P-15 A)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
DIESEL FIRE WATER PUMPS (P-15 B)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
DIESEL FIRE WATER PUMPS (P-15 C)	1020.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					

COMMENT

PETROJET			ENPPI	PMS
Surveyor	Construction	QA/QC	Review	M. Saleh
Signature	Signature	Signature	Signature	Signature

Reply all | Delete Junk | ...

flanges and pumps itself , plastic sheet had been ordered once we received it will be covered ISA.

Regarding jockey pump is not used and the installed is for RAS Shokeir area, so please replace with Agrood areas which are already in ware house is under discussion with project management

By next week site construction team is ready to grout and level pump skids ,So you are kindly requested to arrange to mobilize vendor rep. to site if he like to attend this works . please advise the arrival time 48 hours in advance to prepare the crane and crew.

Other comments are noted and will be implemented

Fathy Shawky

From: Haytham Mamdouh
Sent: Thursday, October 15, 2020 9:12 AM
To: Amr Youssef; Hisham El Mogy
Cc: Mohamed El Saadawy; Shaimaa Sayed; Ahmed El Borady; Shady Mohamed Sherif; Ahmed Abdelkariem; Mohamed Reda Ali; Moataz Kehella; Mohamed Abass Ali Elhadidi; Fathy Shawky; Islam Fouad
Subject: RE: SIR NO.25 & SIR NO.26 need to be closed Agrood project-bad installation condition

Dear All,

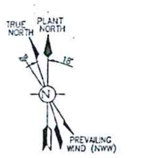
In addition to the previously submit mail, Kindly find the attached Packing list to proceed with generating the SIRs and submit is for us to be issued. Also, the Packing, Shipping, Storage, Lifting and Installation procedure to be considered.

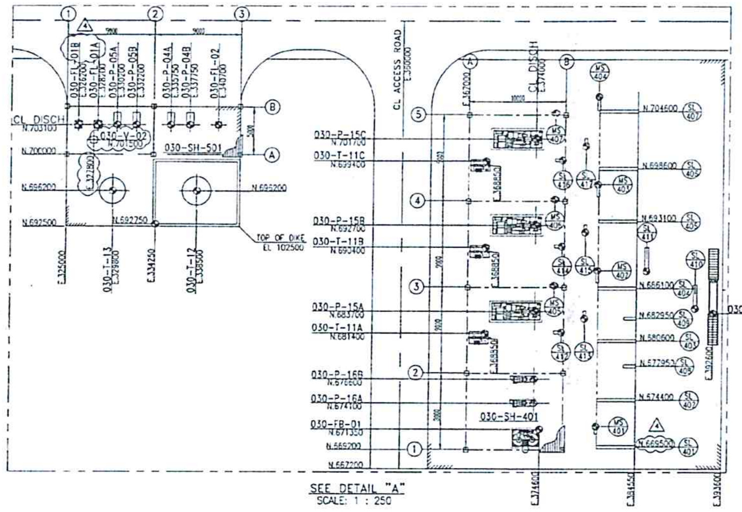
Please notice the following (special care for pump preservation shall be considered in items 4,5, 6 below for areas)

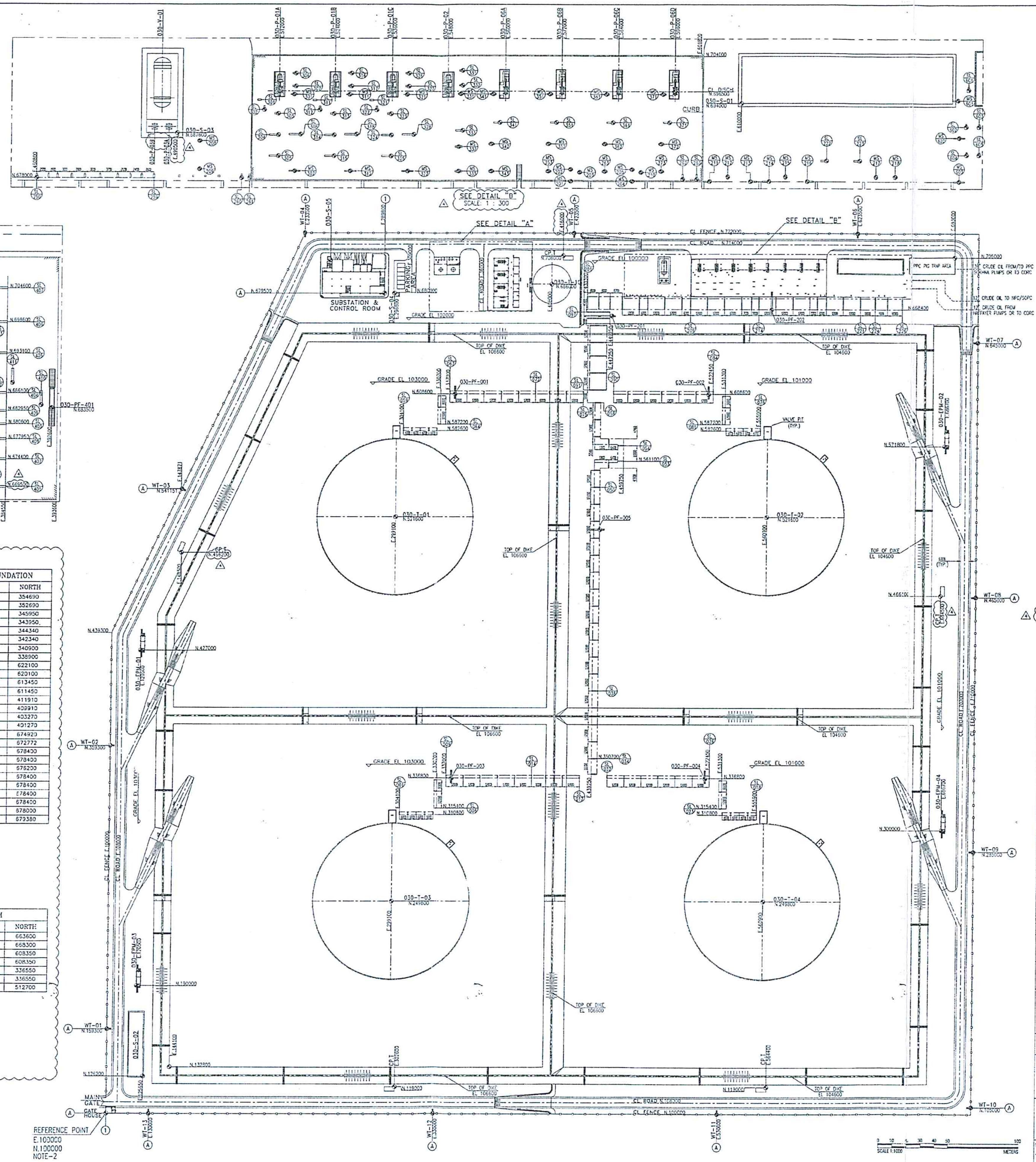
1. The pumps shall be installed in their proper location according to their tag numbers. The following table shows the pump serial against the tag no. for your consideration -the pump main name plate contains the serial number only
   (Note: marked-Up with red items is requested to correctly positioned)-.

Area	Pump Tag No.	Pump Serial No.	Installation Status
Diesel Fire Pumps			
Ras Shukier (010)	010-P-015 A	FP-C000188138-01-01	Un-Installed
	010-P-015 B	FP-C000188138-01-02	Un-Installed
	010-P-015 C	FP-C000188138-01-03	Un-Installed
Agrood Module 1 (030)	030-P-015 A	FP-C000188136-01-04	Un-Installed
	030-P-015 B	FP-C000188136-01-05	Un-Installed
	030-P-015 C	FP-C000188136-01-06	Un-Installed
Agrood Module 2 (031)	031-P-015 A	FP-C000188136-01-07	Installed in wrong position
	031-P-015 B	FP-C000188136-01-08	Installed in wrong position
	031-P-015 C	FP-C000188136-01-09	Installed in wrong position
Jockey Pumps			
Ras Shukier (010)	010-P-016 A	FP-C0192195-01	Installed in Agrood M2
	010-P-016 B	FP-C0192195-02	Installed in Agrood M2
Agrood Module 1 (030)	030-P-016 A	FP-C0192196-03	Un-Installed
	030-P-016 B	FP-C0192196-04	Un-Installed
Agrood	031-P-016 A	FP-C0192196-05	Un-Installed

Engp. Abdelmoh Fathy







PIPE SLEEPERS		
SL NO.	EAST	NORTH
SL-222	628150	681800
SL-223	635150	681800
SL-260	504050	678000
SL-261	505750	678000
SL-262	597700	677850
SL-263	600650	677850
SL-302	508800	692500
SL-303	511800	691700
SL-304	511850	687150
SL-305	511850	682700
SL-306	515550	700300
SL-307	515550	697550
SL-308	516650	687300
SL-312	520800	692500
SL-313	523800	691700
SL-314	523850	687150
SL-315	523850	682700
SL-316	527550	700300
SL-317	527550	697550
SL-318	528550	687300
SL-322	532800	692500
SL-323	535800	691700
SL-324	535850	687150
SL-325	535850	682700
SL-326	539550	700300
SL-327	539550	697550
SL-328	540650	687300
SL-331	551050	700900
SL-332	551050	697750
SL-333	551100	688150
SL-341	557850	689850
SL-351	569850	689850
SL-361	581850	689850
SL-371	593850	689850
SL-410	390700	684000
SL-411	385600	687900
SL-412	376750	681500
SL-413	379150	682950
SL-414	376750	690500
SL-415	379150	691950
SL-416	376750	699500
SL-417	379150	700950
SL-601	658500	696900
SL-602	658000	683050
SL-603	660700	683050
SL-604	658100	683050
SL-605	660700	683050

MISCELLANEOUS PIPE SUPPORTS		
MS NO.	EAST	NORTH
MS-201	574000	677400
MS-202	574000	679900
MS-203	575900	679300
MS-204	587000	677400
MS-205	587000	679900
MS-208	495240	685900
MS-209	495240	679900
MS-210	588900	679300
MS-211	603450	677400
MS-212	607250	678400
MS-213	612050	677400
MS-214	615900	677400
MS-215	619300	678400
MS-216	624050	677400
MS-217	638500	678400
MS-218	642600	678400
MS-301	515200	695800
MS-302	515400	679500
MS-311	527200	695800
MS-312	527400	679500
MS-321	539200	695800
MS-322	539400	679500
MS-331	550700	695950
MS-332	550300	684700
MS-333	550300	679500
MS-341	557500	695900
MS-342	557200	685300
MS-343	557200	679500
MS-351	569500	695900
MS-352	569200	685300
MS-353	569200	679500
MS-361	581500	695900
MS-362	581200	685300
MS-363	581200	679500
MS-371	593500	695900
MS-372	593200	685300
MS-373	593200	679500
MS-401	380450	671600
MS-402	380450	687900
MS-403	380450	696900
MS-404	380450	706150
MS-405	375950	686400
MS-406	375950	695400
MS-407	375950	704400
MS-601	656200	694650
MS-602	656500	686700
MS-603	656500	677400

CONCRETE FOUNDATION		
CF NO.	EAST	NORTH
CF-401	691270	354690
CF-402	691270	352690
CF-403	691270	345950
CF-404	691270	343950.
CF-405	120790	344340
CF-406	120790	342340
CF-407	120790	340900
CF-408	120790	338900
CF-409	691270	622100
CF-410	691270	620100
CF-411	691270	613450
CF-412	691270	611450
CF-413	120790	411910
CF-414	120790	409910
CF-415	120790	403270
CF-416	120790	401270
CF-417	235500	674920
CF-419	234545	672772
CF-420	452630	678400
CF-422	450280	678400
CF-201	550700	676200
CF-202	499300	678400
CF-203	496450	678400
CF-204	493900	678400
CF-205	491000	678400
CF-206	457500	678000
CF-208	457500	679380

PLATFORM		
PF NO.	EAST	NORTH
PF-201	450750	663600
PF-202	563000	668300
PF-001	340550	608350
PF-002	519450	608350
PF-003	340550	336550
PF-004	519450	336550
PF-005	443500	512700

REFERENCES	
DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KPP-001	OVERALL SITE PLAN
01251-100-030-AEL-01	PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01	PROCESS FLOW DIAGRAM

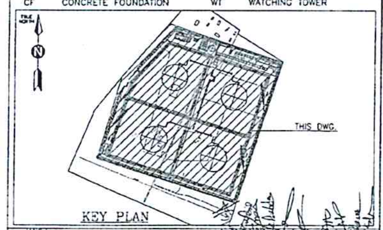
NOTES

1- ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PLANT COORDINATES N 100000 MM & E 100000 MM ARE EQUIVALENT TO UTM SYSTEM N 3325453000 & E 440751000 REFERENCED FROM CONSTRUCTION CONTRACTOR (PETROJET CO.) SURVEY DRAWINGS.
3- HPFS ELEVATION 100000 IS EQUIVALENT TO TRUE ELEVATION 117000 ABOVE MEAN SEA LEVEL
4- ALL SLEEPERS AND MISCELLANEOUS SUPPORT ARE PREFIXED WITH AREA NUMBER ((030).
5- WATCHING TOWER COLUMN CENTERLINE ON SAME FENCE CENTERLINE.
6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED.
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT.

EQUIPMENT LIST		
EQUIP. NO.	DESCRIPTION	ELEVATION REFERENCE
ELECTRICAL EQUIPMENT		
030-EPM-01 / 03	ELECTRICAL POWER MODULE	TOC EL 104500
030-EPM-02 / 04	ELECTRICAL POWER MODULE	TOC EL 102500
FILTERS		
030-FL-01A/B	POTABLE/UTILITIES WATER FILTERS	TOC EL 102200
030-FL-02	DIESEL OIL FILTER	TOC EL 102200
MIXERS		
030-MX-01A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-01) MIXER	-
030-MX-02A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-02) MIXER	-
030-MX-03A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-03) MIXER	-
030-MX-04A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-04) MIXER	-
PACKAGES		
030-FB-01	FOAM BLADDER SKID	TOC EL 102200
PUMPS		
030-P-01A/B/C	CRUDE OIL BOOSTER PUMPS	TOC EL 100200
030-P-02	CRUDE OIL MEDIUM DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-06A/B/C/D	CRUDE OIL HIGH DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-03A/B	CLOSED DRAIN PUMPS	TOC EL 100200
030-P-04A/B	DIESEL OIL TRANSFER PUMPS	TOC EL 102175
030-P-05A/B	POTABLE/UTILITIES WATER FEED PUMPS	TOC EL 102150
030-P-15A/B/C	DIESEL FIRE WATER PUMPS	TOC EL 102200
030-P-16A/B	FIRE WATER JOCKEY PUMPS	TOC EL 102200
SUMPS		
030-S-01	OPEN DRAIN SUMP	TOC EL 100200
030-S-02	OPEN DRAIN SUMP	TOC EL 103200
030-S-03	CLOSED DRAIN SUMP	TOC EL 100200
030-S-04	SANITARY SEWAGE COLLECTION SUMP	TOC EL 102200
030-S-05	TRANSFORMERS OIL COLLECTING SUMP	TOC EL 102200
TANKS		
030-T-01/03	CRUDE OIL STORAGE TANK	TOC EL 103600
030-T-02/04	CRUDE OIL STORAGE TANK	TOC EL 101600
030-T-10	FIRE WATER TANK	TOC EL 102500
030-T-11A/B/C	FIRE WATER PUMPS DIESEL TANKS	TOC EL 102800
030-T-12	DIESEL TANK	TOC EL 102600
030-T-13	POTABLE/UTILITIES WATER STORAGE TANK	TOC EL 102500
VESSELS		
030-V-01	CLOSED DRAIN DRUM	TOC EL 92400
030-V-02	POTABLE/UTILITIES WATER SUPPLY VESSEL	TOC EL 102500

LEGEND

Symbol	Meaning	Abbr.	Meaning
	CONCRETE PAVING LIMITS	CB	CONCRETE BLOCK SUPPORT
	EXISTING FACILITIES	CL	CENTER LINE
	GRATING	CP.T	CATHODIC PROTECTION TRANSFORMER
	MATCH LINE	DISCH	PUMP DISCHARGE NOZZLE
	NEW FACILITIES	EL	ELEVATION
	MAINTENANCE ACCESS/ DROP AREA	FOF	FACE OF FLANGE
	REFERENCE POINT	FS	FIXED SADDLE
	GRADE SLOPE	HPFP	HIGH POINT OF FINISHED PAVING
	ROAD SLOPE	MS	MISCELLANEOUS SUPPORT
	PRECAST CONCRETE FENCE	PF	PLATFORM
TOC	TOP OF CONCRETE	SH	SUN SHADE
TOS	TOP OF STEEL	SL	SLEEPER
CF	CONCRETE FOUNDATION	WT	WATCHING TOWER



KEY PLAN

REV	DATE	DESCRIPTION	PROCESS	LOSS PREV (PTD)	INSTRUMENT	ELECTRICAL	ONS/OFFSHORE	MECHANICAL	CONST.SUP.	PIPING	DEPT.MGR	DIV.G.MGR	PEM
4	AUG 12 2020	REISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
3	MAR 08 2020	ISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
2	NOV 14 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
1	OCT 15 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
0	SEP 19 2019	ISSUED FOR DESIGN	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.

EGPC

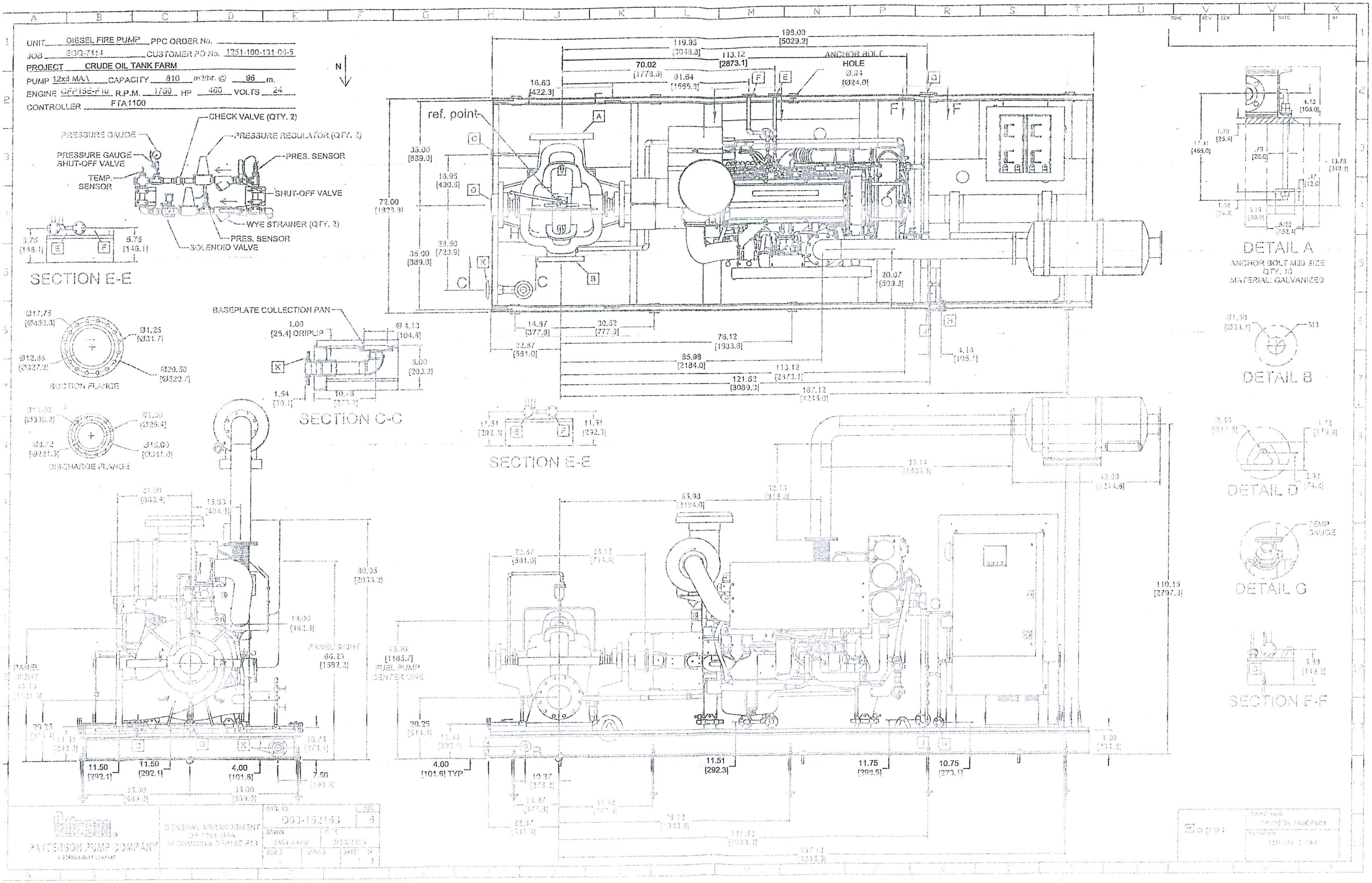
COMPANY PROJ. No. : N/A
ENPPI PROJ. No. : 01251-100
FOR : EGPC — لاجـل الهيئة المصرية العامة للبترول
AT : AGROOD, SUEZ — الموقع عجرود السويس

CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	ENPPI DRAWING NUMBER	SHEET	REVISION
1:1000	01251-100-030-KPP-002	01/01	4

A0 SIZE: 1189 X 841


UNIT DIESEL FIRE PUMP PPC ORDER No.
JOB EGQ-7414 CUSTOMER PO No. 1261-100-131-06-5
PROJECT CRUDE OIL TANK FARM
PUMP 12x8 MAA CAPACITY 810 m3/hr. @ 96 m.
ENGINE CFP15E-F10 R.P.M. 1750 HP 460 VOLTS 24
CONTROLLER FTA1100
CHECK VALVE (QTY. 2)
PRESSURE GAUGE
PRESSURE REGULATOR (QTY. 2)
PRESSURE GAUGE SHUT-OFF VALVE
PRES. SENSOR
TEMP. SENSOR
SHUT-OFF VALVE
WYE STRAINER (QTY. 2)
PRES. SENSOR
SOLENOID VALVE
SECTION E-E
SUCTION FLANGE
DISCHARGE FLANGE
BASEPLATE COLLECTION PAN
1.00 [25.4] DRIPLIP
SECTION C-C
ref. point
ANCHOR BOLT HOLE
Ø.94 [Ø24.0]
198.00 [5029.2]
119.96 [3046.8]
113.12 [2873.1]
70.02 [1778.6]
61.64 [1565.3]
16.63 [422.3]
72.00 [1828.8]
DETAIL A
ANCHOR BOLT M20 SIZE
QTY. 10
MATERIAL: GALVANIZED
DETAIL B
DETAIL D
DETAIL G
TEMP GAUGE
SECTION F-F
FUEL PUMP CENTER LINE
PANEL SIGHT
110.15 [2797.8]
PATTERSON PUMP COMPANY
GENERAL ARRANGEMENT
003-152163

PETROJET Enppi بتروجت

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 28/ 4 / 2021

029 B

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☐ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Parallelsim and Final alignment check for 030-P-16A Fire water Jockey pump

Time :

Date 28/4 / 2021

Reference Documents # :

Parallelsim Report.
Final alignment Report

CONTRACTOR Comment:

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif	Per / Abdullah Fathy	Mohamed Abdel Saalam
Sign.	[signature]	[signature]	M. A. Saalam
Date			28/04/2021

PETROJET | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

ROTATING EQUIPMENT ALIGNMENT

FLANGE PARALLELISM

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Equip Tag No.:	030-P-16A	DWG No.:	
Equip. Desc.:	Fire water Jockey Pump	DATE :	28/4/2021
Area/Unit:			29 B

PARALLEISM READING

SUCTION FLANGE: 0° / 90° / 180° / 270°

DISCHARGE FLANGE: 0° / 90° / 180° / 270°

FLANGE PARALLELISM		
	SUCTION FLANGE (3") INCH	DISCHARGE FLANGE (2") INCH
0	4.95	4.65
90	4.90	4.65
180	4.90	4.60
270	4.90	4.60

Gasket 4.85

REMARKS/NOTES:

TORQUE TIGHTENING	
SUCTION FLANGE (3) INCH	DISCHARGE FLANGE (2) INCH
198 N/M^2	198 N/M^2

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellaty	For	Mohamed Mahmoud Abdel Sadek
Signature	[signature]	Abdallah Fathy [signature]	[signature]
Date			28/04/2021

PETROJET بتروجت | Enppi

INSPECTION & TEST RECORD

ROTATING EQUIPMENT FINAL ALIGNMENT

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

Tag No : 30-P-16A	Description : Fire water Jockey Pump	DATE : 28/4/2021
DWG No :	Location :	REPORT NO : 29 B

RIM/AXIAL-RADIAL

Axial

- 0°: (no reading)
- 270°: 0
- 90°: 0
- 180°: +0.01

Radial

- 0°: (no reading)
- 270°: -0.01
- 90°: -0.02
- 180°: -0.03

Soft Foot Readings	
Foot No.	Reading
1	
2	
3	
4	

Coupling & Other Data		
Coupling Gap DBSE/DBCE	Required Dimension	Actual Dimension
	140 mm	0.25

REMARKS/NOTES:

	PETROJET QC	ENPPI	PMC
Name	Tarek Abdellatif	Abdallah Fathy	Mohamed Mahmoud Abdul Sadek
Signature	Tarek	[signature]	M. A. Sadek
Date			28/04/2021

PETROJET Enppi بتروجت

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 27/ 3 / 2021

029 A

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☐ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Preliminary Alignment check for: 030-P-16A
FIRE WATER JOCKEY PUMP

Time :

Date 27/ 3 / 2021

Reference Documents # :

Pre-alignment Report.

CONTRACTOR Comment:

Release for Base Plate Grout.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	For / Abdallah Fathy	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

Q.C Civil
[signature]

Petrojet | Enppi

INSPECTION & TEST RECORD

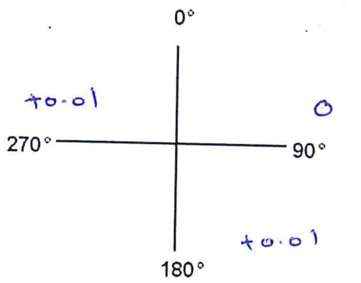
ROTATING EQUIPMENT PRELIMINARY ALIGNMENT

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

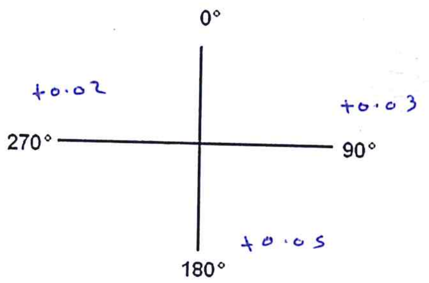
EGPC | Petroleum Pipelines Company شركة أنابيب البترول

Tag No : 030-P-16A	Description : FIRE WATER JockEY PUMP	DATE :
DWG No :	Location : 030	REPORT NO :

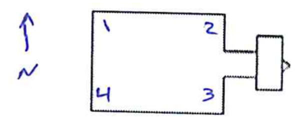
RIM/AXIAL-RADIAL



Axial



Radial

Soft Foot Readings	Foot No.	Reading
	1	+0·03
	2	+0·01
	3	+0·03
	4	+0·03

REFERENCE CODE/SPECIFICATION:

N/S	0
E/W	0·05

Coupling & Other Data		
	Required Dimension	Actual Dimension
Coupling Gap DBSE/DBCE	140 mm	

REMARKS/NOTES:

	PETROJET QC	ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	for Abdallah Fathy	M. Saleh
Signature	[signature]	[signature]	[signature]
Date			

PETROJET Enppi | REQUEST FOR INSPECTION RFI | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 7/3 / 2021

029

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Axis and Elevation check for : 030-P-16 A

FIRE WATER Jockey PUMP

Time :

Date 7/3 / 2021

Reference Documents # :

- Mechanical DWG No: ATH-JPGA-191217
- Plot Plan: 01251-100-030-KPP-002
- survey Report and elevation Report are attached
- Pump Tag No. against serial No. are attached.

CONTRACTOR Comment:

* Pump Tag No. Missing. *

Release for Pocket Grout "ONLY"

The work are: ☐ Accepted ☑ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	Review for / Abdullah Fathy	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

Q.C civil

Mahmoud abdelaziz

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET بتروجت | Enppi

Project :

INSPECTION SURVEYING REPORT

RIT No : ____________ Report No : 029 Area : 030

STRUCTURE / ELEMENT : 030-P-16A DESCRIPTION : Fire Water Jockey Pump

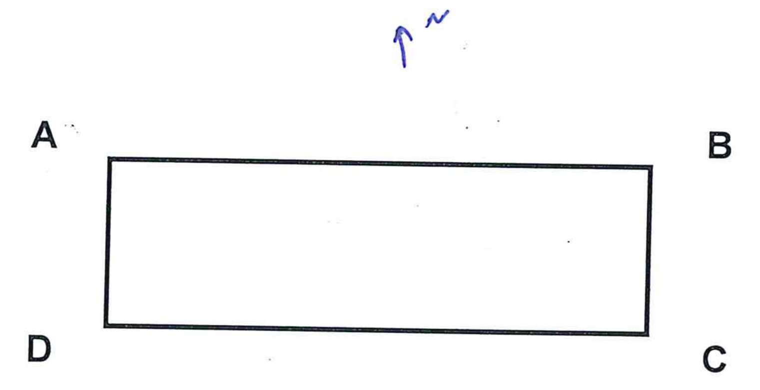
DWG : ATH-JPGA-191717 Rev : ______ Status : ______

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS

Section

NO	THIORITICAL	ACTUAL	
A	102.300	102.300	0
B	102.300	102.300	0
C	102.300	102.302	+2
D	102.300	102.301	+1



REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

INSPECTION RESULTS :

- APPROVED ☑
- NOT APPROVED ☐
- APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME		Review Eng/ Abdullah Fathy	M. Saleh
SIGN.	[signature]	[signature]	[signature]
DATE			

PETROJET

EQUIPMENT SURVEY REPORT

EGPC NEW CRUDE OIL TANKS FARM AGRROOD

Enppi

RFI No :

Date : 06-03-21

Location : AREA 30

Report No.

Module 1

Structure : EQUIPMENT SURVEY REPORT FOR FIRE WATER JOCKEY PUMPS (P-16 A B)

1- Coordinates

NO	Coordinates (Drawing) C.L DISCH			Coordinates (Actual)				
	Easting	Northing		Easting	Northing	Diff- E	Diff - N	Tolerance
FIRE WATER JOCKEY PUMPS (P-16 A)	373.025	674.100		373.025	674.099	0.000	0.001	
FIRE WATER JOCKEY PUMPS (P-16 B)	373.025	676.600		373.025	676.600	0.000	0.000	

2-Elevation

NO.	As Per DWG (T.O.G)	Actual	Diff	Tolerance	NO.	As Per DWG	Actual	Diff	Tolerance
FIRE WATER JOCKEY PUMPS (P-16 A)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
FIRE WATER JOCKEY PUMPS (P-16 B)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					

COMMENT

PETROJET			ENPPI	PMS
Surveyor	Construction	QA/QC		M. Saleh
Signature	Signature	Signature	Signature	Signature

Reply all | Delete Junk | ...

flanges and pumps itself , plastic sheet had been ordered once we received it will be covered ISA.

Regarding jockey pump is not used and the installed is for RAS Shokeir area, so please replace with Agrood areas which are already in ware house is under discussion with project management

By next week site construction team is ready to grout and level pump skids ,So you are kindly requested to arrange to mobilize vendor rep. to site if he like to attend this works . please advise the arrival time 48 hours in advance to prepare the crane and crew.

Other comments are noted and will be implemented

Fathy Shawky

From: Haytham Mamdouh
Sent: Thursday, October 15, 2020 9:12 AM
To: Amr Youssef; Hisham El Mogy
Cc: Mohamed El Saadawy; Shaimaa Sayed; Ahmed El Borady; Shady Mohamed Sherif; Ahmed Abdelkariem; Mohamed Reda Ali; Moataz Kehella; Mohamed Abass Ali Elhadidi; Fathy Shawky; Islam Fouad
Subject: RE: SIR NO.25 & SIR NO.26 need to be closed Agrood project-bad installation condition

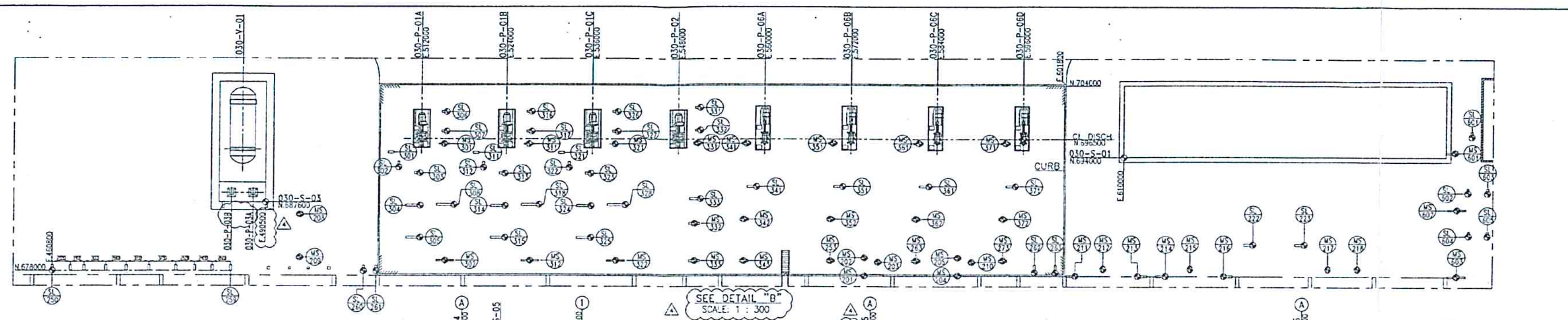
Dear All,

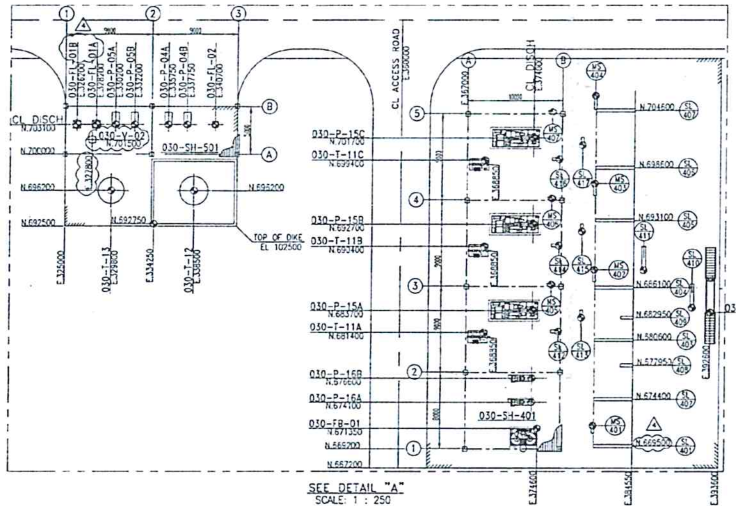
In addition to the previously submit mail, Kindly find the attached Packing list to proceed with generating the SIRs and submit is for us to be issued. Also, the Packing, Shipping, Storage, Lifting and Installation procedure to be considered.
Please notice the following (special care for pump preservation shall be considered in items 4,5, 6 below for areas)

1. The pumps shall be installed in their proper location according to their tag numbers. The following table shows the pump serial against the tag no. for your consideration -the pump main name plate contains the serial number only.
   (Note: marked-Up with red items is requested to correctly positioned)-.

Area	Pump Tag No.	Pump Serial No.	Installation Status
	Diesel Fire Pumps		
Ras Shukier (010)	010-P-015 A	FP-C000188138-01-01	Un-Installed
	010-P-015 B	FP-C000188138-01-02	Un-Installed
	010-P-015 C	FP-C000188138-01-03	Un-Installed
Agrood Module 1 (030)	030-P-015 A	FP-C000188136-01-04	Un-Installed
	030-P-015 B	FP-C000188136-01-05	Un-Installed
	030-P-015 C	FP-C000188136-01-06	Un-Installed
Agrood Module 2 (031)	031-P-015 A	FP-C000188136-01-07	Installed in wrong position
	031-P-015 B	FP-C000188136-01-08	Installed in wrong position
	031-P-015 C	FP-C000188136-01-09	Installed in wrong position
	Jockey Pumps		
Ras Shukier (010)	010-P-016 A	FP-C0192195-01	Installed in Agrood M2
	010-P-016 B	FP-C0192195-02	Installed in Agrood M2
Agrood Module 1 (030)	030-P-016 A	FP-C0192196-03	Un-Installed
	030-P-016 B	FP-C0192196-04	Un-Installed
Agrood	031-P-016 A	FP-C0192196-05	Un-Installed

Enppi Abdullah Fathy





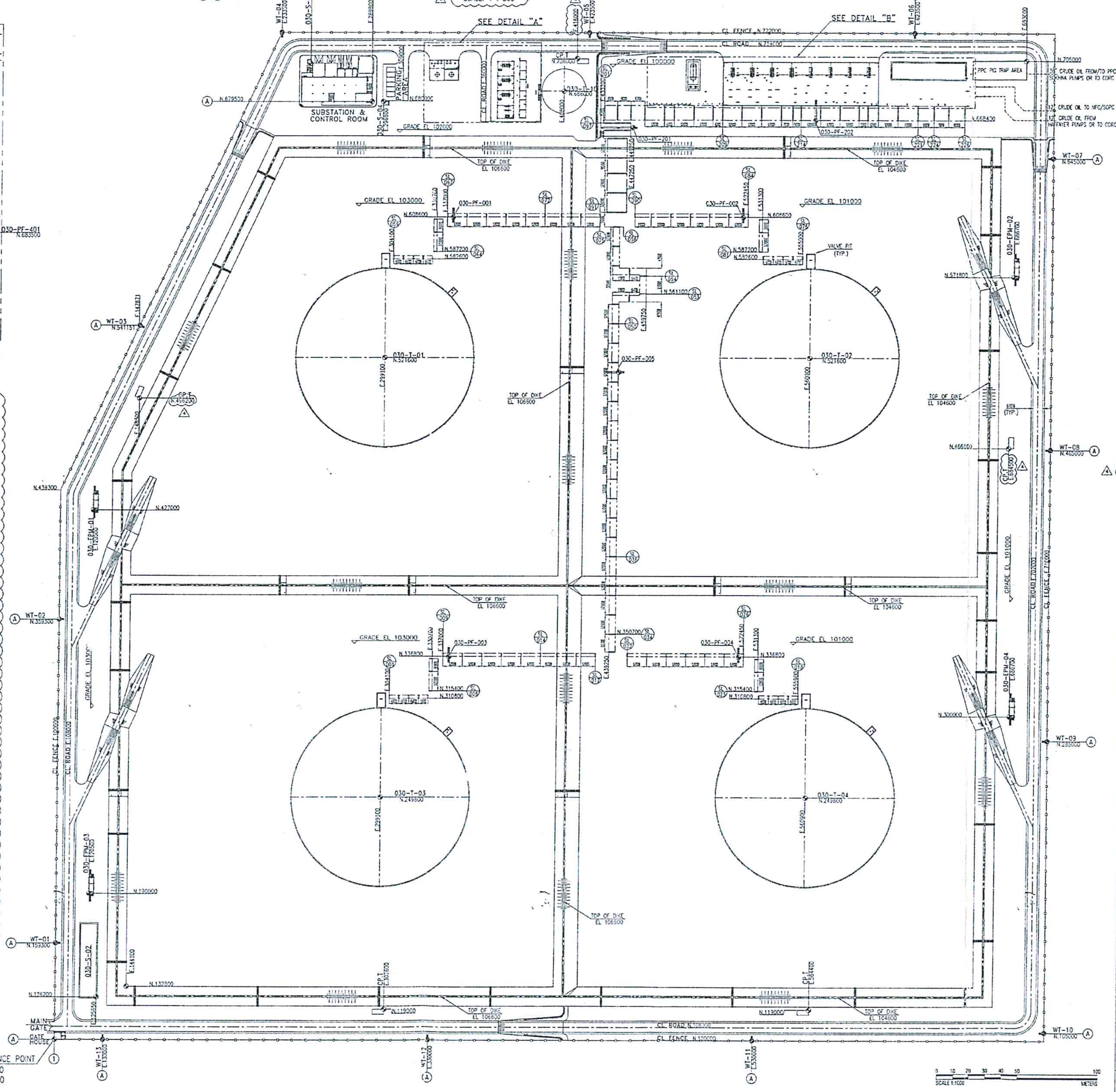
SEE DETAIL "A"
SCALE: 1 : 250

PIPE SLEEPERS		
SL NO.	EAST	NORTH
SL-222	628150	681800
SL-223	635150	681800
SL-260	504050	678000
SL-261	505750	678000
SL-262	597700	677850
SL-263	600650	677850
SL-302	508800	692500
SL-303	511800	691700
SL-304	511850	687150
SL-305	511850	682700
SL-306	515550	700300
SL-307	515550	697550
SL-308	516650	687300
SL-312	520800	692500
SL-313	523800	691700
SL-314	523850	687150
SL-315	523850	682700
SL-316	527550	700300
SL-317	527550	697550
SL-318	528650	687300
SL-322	532800	692500
SL-323	535800	691700
SL-324	535850	687150
SL-325	535850	682700
SL-326	539550	700300
SL-327	539550	697550
SL-328	540650	687300
SL-331	551050	700900
SL-332	551050	697750
SL-333	551100	688150
SL-341	557850	689850
SL-351	569850	689850
SL-361	581850	689850
SL-371	593850	689850
SL-410	390700	684000
SL-411	385600	687900
SL-412	376750	681500
SL-413	379150	682950
SL-414	376750	690500
SL-415	379150	691950
SL-416	376750	699500
SL-417	379150	700950
SL-601	658500	696900
SL-602	658000	689050
SL-603	660700	689050
SL-604	658100	683050
SL-605	660700	683050

MISCELLANEOUS PIPE SUPPORTS		
MS NO.	EAST	NORTH
MS-201	574000	677400
MS-202	574000	679900
MS-203	575900	679300
MS-204	587000	677400
MS-205	587000	679900
MS-208	495240	685900
MS-209	495240	679900
MS-210	588900	679300
MS-211	603450	677400
MS-212	607250	678400
MS-213	612050	677400
MS-214	615900	677400
MS-215	619300	678400
MS-216	624050	677400
MS-217	638500	678400
MS-218	642600	678400
MS-301	515200	695800
MS-302	515400	679500
MS-311	527200	695800
MS-312	527400	679500
MS-321	539200	695800
MS-322	539400	679500
MS-331	550700	695950
MS-332	550300	684700
MS-333	550300	679500
MS-341	557500	695900
MS-342	557200	685300
MS-343	557200	679500
MS-351	569500	695900
MS-352	569200	685300
MS-353	569200	679500
MS-361	581500	695900
MS-362	581200	685300
MS-363	581200	679500
MS-371	593500	695900
MS-372	593200	685300
MS-373	593200	679500
MS-401	380450	671600
MS-402	380450	687900
MS-403	380450	696900
MS-404	380450	706150
MS-405	375950	686400
MS-406	375950	695400
MS-407	375950	704400
MS-601	656200	694650
MS-602	656500	686700
MS-603	656500	677400

CONCRETE FOUNDATION		
CF NO.	EAST	NORTH
CF-401	691270	354690
CF-402	691270	352690
CF-403	691270	345950
CF-404	691270	343950
CF-405	120790	344340
CF-406	120790	342340
CF-407	120790	340900
CF-408	120790	338900
CF-409	691270	622100
CF-410	691270	620100
CF-411	691270	613450
CF-412	691270	611450
CF-413	120790	411910
CF-414	120790	409910
CF-415	120790	403270
CF-416	120790	401270
CF-417	235500	674920
CF-419	234545	672772
CF-420	452630	678400
CF-422	450280	678400
CF-201	550700	676200
CF-202	499300	678400
CF-203	496450	678400
CF-204	493900	678400
CF-205	491000	678400
CF-206	457500	678000
CF-208	457500	679380

PLATFORM		
PF NO.	EAST	NORTH
PF-201	450750	663600
PF-202	563000	668300
PF-001	340550	608350
PF-002	519450	608350
PF-003	340550	336550
PF-004	519450	336550
PF-005	443500	512700



REFERENCES

DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KPP-001	OVERALL SITE PLAN
01251-100-030-AEL-01	PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01	PROCESS FLOW DIAGRAM

NOTES

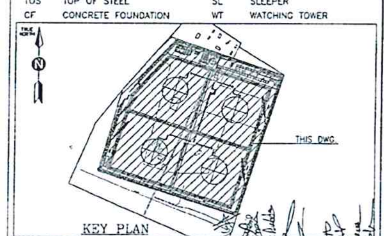
1- ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PLANT COORDINATES N 100000 MM & E 100000 MM ARE EQUIVALENT TO UTM SYSTEM N 3326453000 & E 440751000 REFERENCED FROM CONSTRUCTION CONTRACTOR (PETROJET CO.) SURVEY DRAWINGS.
3- HPFS ELEVATION 100000 IS EQUIVALENT TO TRUE ELEVATION 117000 ABOVE MEAN SEA LEVEL.
4- ALL SLEEPERS AND MISCELLANEOUS SUPPORT ARE PREFIXED WITH AREA NUMBER (030). △4
5- WATCHING TOWER COLUMN CENTERLINE ON SAME FENCE CENTERLINE.
6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED.
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT.

EQUIPMENT LIST

EQUIP. NO.	DESCRIPTION	ELEVATION REFERENCE
ELECTRICAL EQUIPMENT		
030-EPM-01 / 03	ELECTRICAL POWER MODULE	TOC EL 104500
030-EPM-02 / 04	ELECTRICAL POWER MODULE	TOC EL 102500
FILTERS		
030-FL-01A/B	POTABLE/UTILITIES WATER FILTERS	TOC EL 102200
030-FL-02	DIESEL OIL FILTER	TOC EL 102200
MIXERS		
030-MX-01A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-01) MIXER	-
030-MX-02A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-02) MIXER	-
030-MX-03A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-03) MIXER	-
030-MX-04A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-04) MIXER	-
PACKAGES		
030-FB-01	FOAM BLADDER SKID	TOC EL 102200
PUMPS		
030-P-01A/B/C	CRUDE OIL BOOSTER PUMPS	TOC EL 100200
030-P-02	CRUDE OIL MEDIUM DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-06A/B/C/D	CRUDE OIL HIGH DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-03A/B	CLOSED DRAIN PUMPS	TOC EL 100200
030-P-04A/B	DIESEL OIL TRANSFER PUMPS	TOC EL 102175 △4
030-P-05A/B	POTABLE/UTILITIES WATER FEED PUMPS	TOC EL 102150 △4
030-P-15A/B/C	DIESEL FIRE WATER PUMPS	TOC EL 102200
030-P-16A/B	FIRE WATER JOCKEY PUMPS	TOC EL 102200
SUMPS		
030-S-01	OPEN DRAIN SUMP	TOC EL 100200
030-S-02	OPEN DRAIN SUMP	TOC EL 103200
030-S-03	CLOSED DRAIN SUMP	TOC EL 100200
030-S-04	SANITARY SEWAGE COLLECTION SUMP	TOC EL 102200
030-S-05	TRANSFORMERS OIL COLLECTING SUMP	TOC EL 102200
TANKS		
030-T-01/03	CRUDE OIL STORAGE TANK	TOC EL 103600
030-T-02/04	CRUDE OIL STORAGE TANK	TOC EL 101600
030-T-10	FIRE WATER TANK	TOC EL 102500
030-T-11A/B/C	FIRE WATER PUMPS DIESEL TANKS	TOC EL 102900
030-T-12	DIESEL TANK	TOC EL 102600 △4
030-T-13	POTABLE/UTILITIES WATER STORAGE TANK	TOC EL 102500
VESSELS		
030-V-01	CLOSED DRAIN DRUM	TOC EL 92400
030-V-02	POTABLE/UTILITIES WATER SUPPLY VESSEL	TOC EL 102500

LEGEND

Symbol	Meaning	Abbr.	Meaning
	CONCRETE PAVING LIMITS	CB	CONCRETE BLOCK SUPPORT
	EXISTING FACILITIES	CL	CENTER LINE
	GRATING	CP.T	CATHODIC PROTECTION TRANSFORMER
	MATCH LINE	DISCH	PUMP DISCHARGE NOZZLE
	NEW FACILITIES	EL	ELEVATION
	MAINTENANCE ACCESS/ DROP AREA	FOF	FACE OF FLANGE
	REFERENCE POINT	FS	FIXED SADDLE
	GRADE SLOPE	HPFP	HIGH POINT OF FINISHED PAVING
	ROAD SLOPE	MS	MISCELLANEOUS SUPPORT
	PRECAST CONCRETE FENCE	PF	PLATFORM
TOC	TOP OF CONCRETE	SH	SUN SHADE
TOS	TOP OF STEEL	SL	SLEEPER
CF	CONCRETE FOUNDATION	WT	WATCHING TOWER



KEY PLAN

REV	DATE	DESCRIPTION	PROCESS (PTD)	LOSS PREV (PTD)	INSTRUMENT	ELECTRICAL	CIVIL/OFFSHORE	MECHANICAL	CONST.SUP.	PIPING	DEPT.MGR	DIV.G.MGR	PEM
4	AUG 12 2020	REISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
3	MAR 08 2020	ISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
2	NOV 14 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
1	OCT 15 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
0	SEP 19 2019	ISSUED FOR DESIGN	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.

EGPC

COMPANY PROJ. No. : N/A
ENPPI PROJ. No. : 01251-100
FOR : EGPC — لاجل الهيئة المصرية العامة للبترول
AT : AGROOD, SUEZ — الموقع عجرود السويس

CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN

الشركة الهندسية لصناعات البترول والكيماويات
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	ENPPI DRAWING NUMBER	SHEET	REVISION
1:1000	01251-100-030-KPP-002	01/01	4

A0 SIZE: 1189 X 841

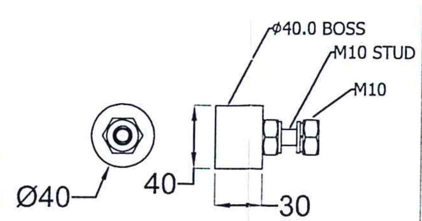
CUSTOMER NAME	PROJECT NAME	QUOTE REF.
ENPPI	NEW CRUDE OIL TANK FARM	EGQ-7414
PUMP IC 80-50-315	CAPACITY (M3/HR) 57	PRESSURE (M) 103.0
DRIVER MODEL ABB M3BP 225 SMA2	POWER (KW) 40	SPEED (RPM) 2950
CONTROLLER MODEL FIRETROL FTA550E		

WEIGHT	
PUMP:	140 kg
MOTOR:	347 kg
CONTROLLER	45 kg
BASE:	300 kg
ACC/RIES:	24 kg
TOTAL:	856 kg

TP#	PART	DESCRIPTION	SIZE
TP01	J	JOCKEY PUMP SUCTION	3" 150# RF
TP02	K	JOCKEY PUMP DISCHARGE	2" 150# RF
TP03	I	JOCKEY CASING DRAIN	1/2" 150# RF
TP19	Q	PRESSURE SENSING LINE	1/2" 150# RF
TP20	P	PRESSURE SENSING LINE DRAIN	1/2" NPT PLUGGED
TP33	M	PACKING BOX DRAIN	1/2" 150# RF
TP34	N	BASEPLATE DRAIN	1/2" 150# RF

MAXIMUM MAINTENANCE WEIGHT: 347 kg

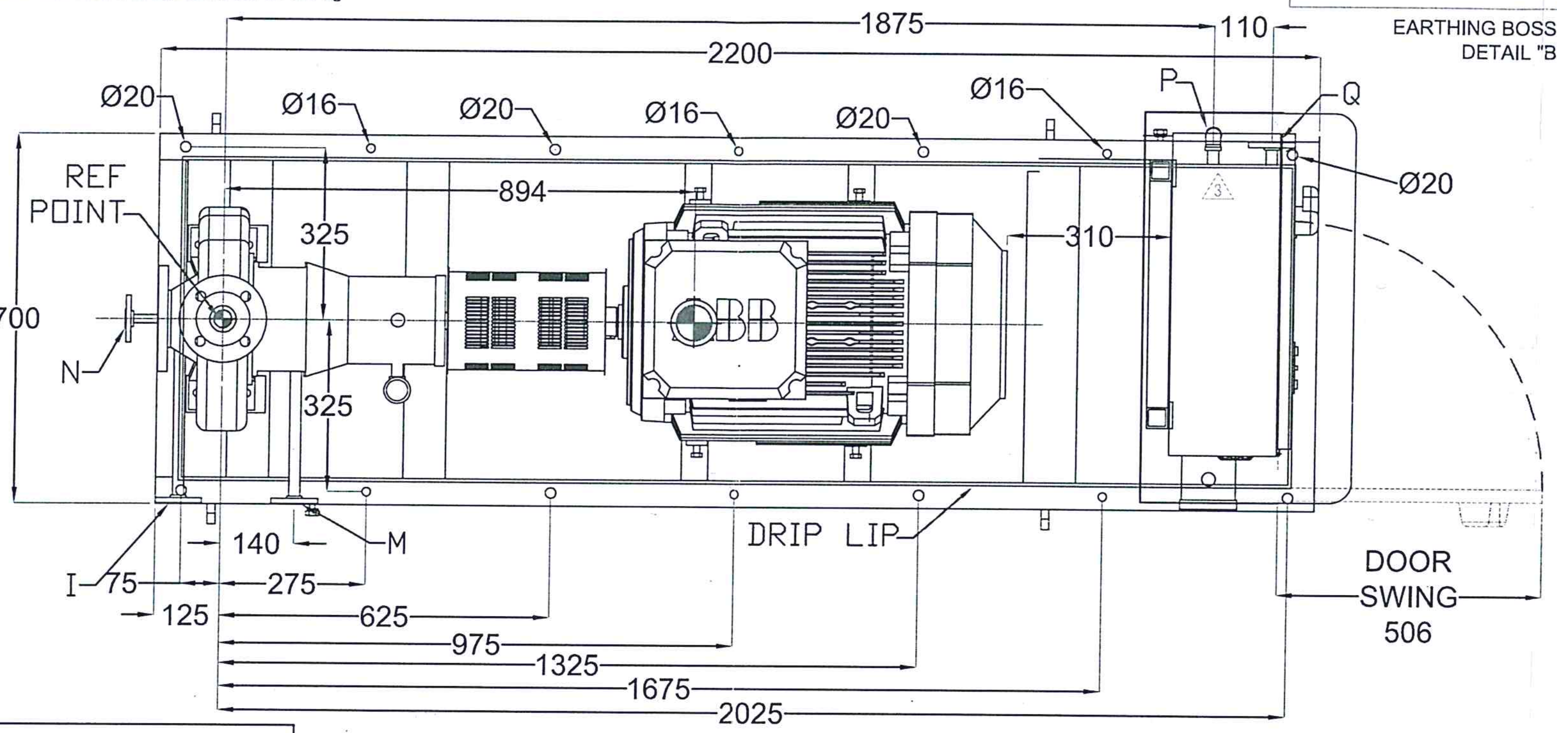
PART	DESCRIPTION	MATERIAL
A	COUPLING GUARD non sparking	BRASS
B	8 X 20mm ANCHOR BOLT HOLES	-
C	LIFTING PLATES	STEEL
D	TERMINAL BOX	CAST IRON
E	SPACER COUPLING 140mm	CARBON STEEL
F	MOTOR ALIGNMENT BLOCK (8 ITEMS)	STEEL
G	EARTHING BOSS M10	STEEL
H	LEVELING BLOCK M16 x 6	STEEL
L	CONTROL PANEL WITH SHADE	MNF. STD.

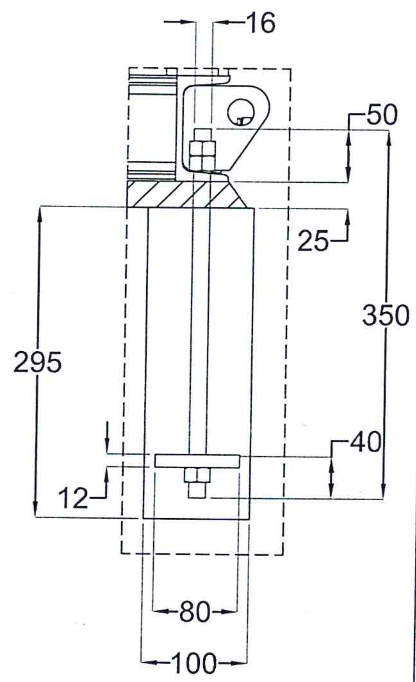


EARTHING BOSS DETAIL
DETAIL "B"

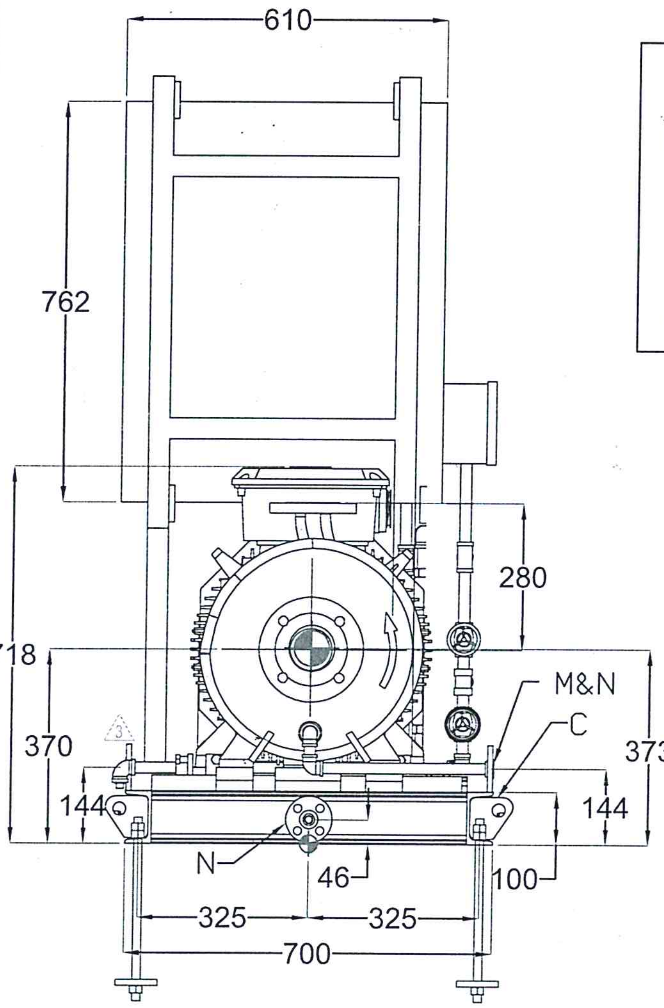
NOTES:

1. MAINTENANCE SPACE AROUND SKID: 1.0 m
2. ALL DIMENSIONS ARE IN SI UNITS (MILLIMETERS UNLESS OTHERWISE STATED)
3. PUMP FLANGES AND ALL PURCHASER INTERFACE NOZZLES COMPLY TO ASME B16.5 .

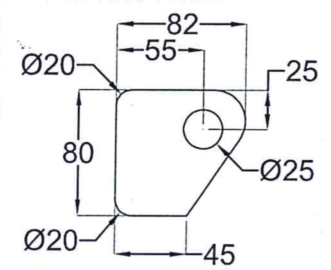




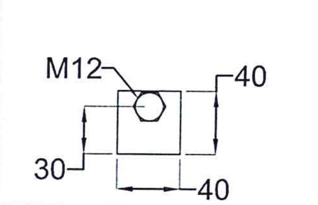
POCKET SIZE 100 x 100 x 295mm
ANCHOR BOLT M16
HOT DIP GALVANIZED
TYPE-P BY PPC, QTY: 8

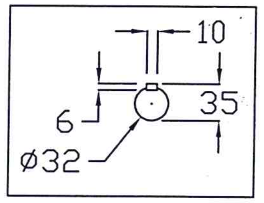


LIFTING PLATE

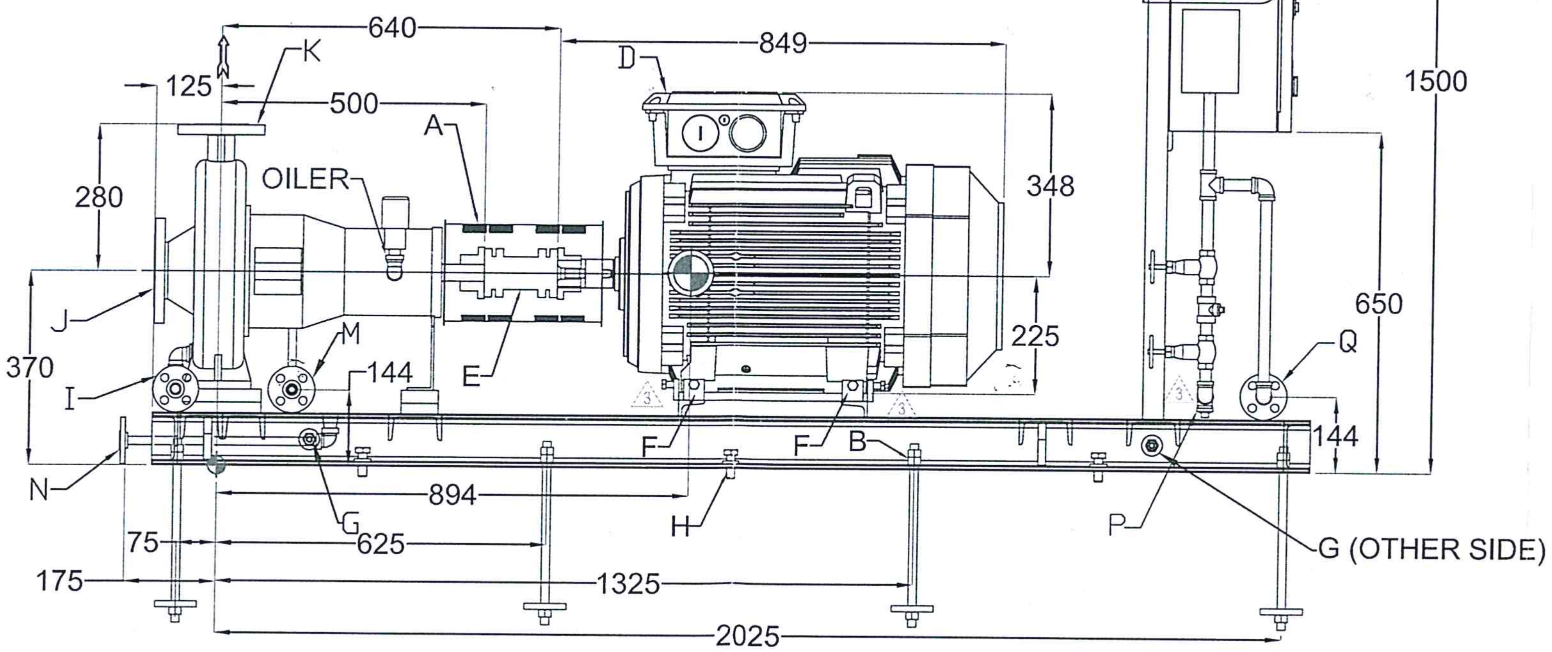


MOTOR ALIGNMENT BLOCK





PUMP SHAFT END DETAIL



REV	DESCRIPTION	DWRN	CHK'D	APP'D	DATE
3	ISSUED FOR APPROVAL	GN	GN	AG	18-MAR-2020
2	ISSUED FOR APPROVAL	GN	GN	AG	25-FEB-2020
1	ISSUED FOR APPROVAL	GN	GN	AG	11-FEB-2020
0	ISSUED FOR APPROVAL	GN	GN	AG	23-JAN-2020

END USER: Enppi

PROJECT NAME: CRUDE OIL TANK FARM
PO NUMBER: 1251-100-131-06-5

Patterson Pump Company

SEQ. NO. : E02
JOB NO. : EGQ-7414
DWG SIZE:
SCALE :

TITLE:
JOCKEY PUMP
GENERAL ARRANGEMENT
Tag No. : 010-P-016 A/B, 030-P-016 A/B, 040-P-016 A/B
020-P-016 A/B, 031-P-016 A/B, 050-P-016 A/B
021-P-016 A/B 060-P-016 A/B

DWG NO.: ATH-JPGA-191217 | SHT: 1 OF 2 | REV: 3

PETROJET Enppi بتروجت

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)

Date: 28/4 / 2021

030 B

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Parallelism and Final alignment for 030-P-16B

Time :

Date 28/ 4/ 2021

Reference Documents # :

Parallelism Report
Final alignment Report

CONTRACTOR Comment:

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif	For/ Abdallah Fathy	Mohamed Abdel Sadek
Sign.	Tarek	[signature]	M. A. Sadek
Date			28/04/2021

ROTATING EQUIPMENT ALIGNMENT

FLANGE PARALLELISM

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PETROJET | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

Equip Tag No.:	030 - P - 16B	DWG No.:	
Equip. Desc.:	Fire water Jockey Pump	DATE :	28-4.2021
Area/Unit:			030B

PARALLEISM READING

0° / 90° / 180° / 270°

SUCTION FLANGE

0° / 90° / 180° / 270°

DISCHARGE FLANGE

FLANGE PARALLELISM		
	SUCTION FLANGE (3) INCH	DISCHARGE FLANGE (2) INCH
0	4.55	4.70
90	4.55	4.65
180	4.55	4.65
270	4.55	4.65

4.85

REMARKS/NOTES:

TORQUE TIGHTENING	
SUCTION FLANGE (3) INCH	DISCHARGE FLANGE (2) INCH
198 N/M^2	198 N/M^2

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif	For/ Abdallah Fathy	Mohamed Mahmoud Abdel Sadek
Signature	[signature]	[signature]	M. A. Sadek
Date			28/04/2021

INSPECTION & TEST RECORD

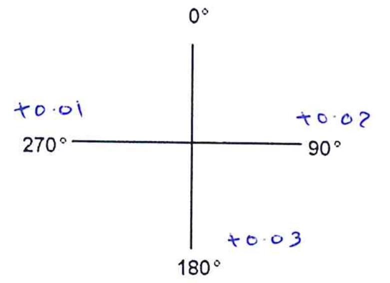
ROTATING EQUIPMENT FINAL ALIGNMENT

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

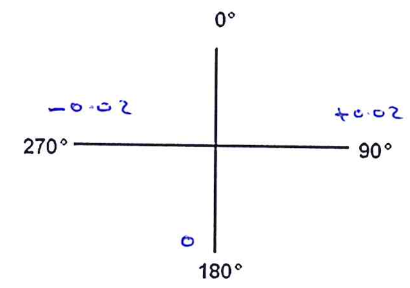
PETROJET بتروجت | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

Tag No : 030 - P- 16 B	Description : Fire Water Jockey Pump	DATE : 28 - 4 - 2021
DWG No :	Location : 030	REPORT NO : 030 B

RIM/AXIAL-RADIAL



Axial



Radial

Soft Foot Readings

Foot No.	Reading
1	
2	
3	
4	

Coupling & Other Data

	Required Dimension	Actual Dimension
Coupling Gap DBSE/DBCE	140 mm	0.23

REMARKS/NOTES:

	PETROJET QC	ENPPI	PMC
Name	Tarek Abdellatif	For / Abdallah Fathy	Mohamed Mahmoud AbdelSalam
Signature	[signature]	[signature]	M. A. Saalam
Date			28/04/2021

PETROJET بتروجت Enppi

REQUEST FOR INSPECTION
RFI

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Date: 27/ 3 / 2021

030 A

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☐ Survey	11	☐ General
4	☐ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

Preliminary Alignment check for: 030-P-16 B
FIRE WATER JOCKEY PUMP

Time :

Date 27/ 3 / 2021

Reference Documents # :

Pre-alignment Report

CONTRACTOR Comment:

Release for Base Plat Grout.

The work are: ☑ Accepted ☐ Accepted with comment ☐ Rejected

	PETROJET	ENPPI	PMC
Name	Tarek Abdellatif Mostafa	For Abdallah Fathy	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

Q.C Civil

[signature]

INSPECTION & TEST RECORD

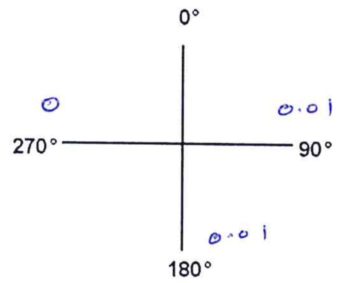
ROTATING EQUIPMENT PRELIMINARY ALIGNMENT

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

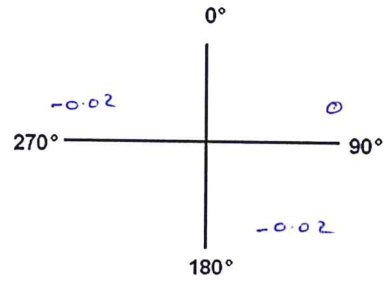
PETROJET بتروجت | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

Tag No : 030-P-16 B	Description : FIRE JOCKEY WATER PUMP	DATE :
DWG No :	Location : 030	REPORT NO :

RIM/AXIAL-RADIAL

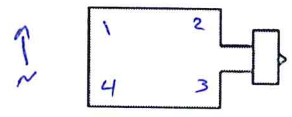


Axial



Radial

Soft Foot Readings



Foot No.	Reading
1	+0.01
2	+0.03
3	+0.04
4	+0.03

REFERENCE CODE/SPECIFICATION:

N/S	0.05
E/W	0.05

Coupling & Other Data

	Required Dimension	Actual Dimension
Coupling Gap DBSE/DBCE	140 mm	

REMARKS/NOTES:

	PETROJET QC	ENPPI	PMC
Name	Tarek Abdellatif Mostafa.	(R) For Abdallah Fathy	M. Saleh
Signature	[signature]	[signature]	[signature]
Date			

PETROJET Enppi بتروجت	REQUEST FOR INSPECTION RFI	EGPC / Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)	Date: 7/3/2021

030

Submittal Discipline:

1	☐ Civil	5	☐ Environmental	9	☐ Transportation
2	☐ Structure	6	☐ Instrument	10	☐ HVAC
3	☐ Electrical	7	☑ Survey	11	☐ General
4	☑ Mechanical	8	☐ Architecture	12	☐ Other ....

Description of work that requires to be inspected

AXis and Elevation check for: 030-P-16B

FIRE WATER Jockey PUMP

Time :

Date 7 / 3 / 2021

Reference Documents # :

- Mechanical DWG No.: ATH-JPGA-191217
- Plot Plan : 0125I - 100 - 030 - KPP - 002
- Survey Report and elevation Report are attached
- Pump Tag No. against serial No. are attached.

CONTRACTOR Comment:

* Pump Tag No. Missing. *

Release for Pocket Grout "ONLY"

The work are: ☐ Accepted ☑ Accepted with comment ☐ Rejected

	PETROJET	Review ENPPI	PMC
Name	Tarek Abdellatif Mostafa	Eng/ Abdullah Fathy	M. Saleh
Sign.	[signature]	[signature]	[signature]
Date			

Q.C. Civil
Mahmoud abdelaziz.

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)

PETROJET بتروجت | Enppi

Project : **INSPECTION SURVEYING REPORT**

RIT No : ____________ Report No : 030 Area : 030

STRUCTURE / ELEMENT : 030 - P - 16 B DESCRIPTION : Fire water Jockey Pump.

DWG : ATH - JPGA - 191217 Rev : ______ Status : ______

INSTRUMENT USED

EQUIPMENT NAME/ TYPE	MANUFACTURER'S NAME	MODEL No.	SERIAL No.	REMARKS

Section

NO	THIORITICAL	ACTUAL	
A	102.300	102.302	+ 2
B	102.300	102.300	0
C	102.300	102.300	0
D	102.300	102.302	+ 2

A B

D C

REFERENCE SKETCHES AND/OR ATTACHMENTS :

SURVEYOR Name - Signature

INSPECTION RESULTS :

APPROVED ☑
NOT APPROVED ☐
APPROVED W/ COMMENT ☐

REMARKS : ALL DIMENSION ARE IN MM

	PETROJET	ENPPI	PMC
NAME	Tarek Abdellatif Mostafa	Review for / Abdallah Fathy	M. Saied
SIGN.	Tarek	[signature]	[signature]
DATE			

PETROJET

EQUIPMENT SURVEY REPORT

EGPC NEW CRUDE OIL TANKS FARM AGRROOD

Enppi

RFI No :

Location : AREA 30

Module 1

Date : 06-03-21

Report No.

Structure : EQUIPMENT SURVEY REPORT FOR FIRE WATER JOCKEY PUMPS (P-16 A B)

1- Coordinates

NO	Coordinates (Drawing) C.L DISCH			Coordinates (Actual)				
	Easting	Northing		Easting	Northing	Diff- E	Diff - N	Tolerance
FIRE WATER JOCKEY PUMPS (P-16 A)	373.025	674.100		373.025	674.099	0.000	0.001	
FIRE WATER JOCKEY PUMPS (P-16 B)	373.025	676.600		373.025	676.600	0.000	0.000	

2-Elevation

NO.	As Per DWG (T.O.G)	Actual	Diff	Tolerance	NO.	As Per DWG	Actual	Diff	Tolerance
FIRE WATER JOCKEY PUMPS (P-16 A)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
FIRE WATER JOCKEY PUMPS (P-16 B)	102.2	102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					
		102.200	102.200	0					

COMMENT

PETROJET			ENPPI	PMS
Surveyor	Construction	QA/QC		M. Saleh
Signature	Signature	Signature	Signature	Signature

Reply all | Delete Junk | ...

flanges and pumps itself , plastic sheet had been ordered once we received it will be covered ISA.

Regarding jockey pump is not used and the installed is for RAS Shokeir area, so please replace with Agrood areas which are already in ware house is under discussion with project management

By next week site construction team is ready to grout and level pump skids ,So you are kindly requested to arrange to mobilize vendor rep. to site if he like to attend this works . please advise the arrival time 48 hours in advance to prepare the crane and crew.

Other comments are noted and will be implemented

Fathy Shawky

From: Haytham Mamdouh
Sent: Thursday, October 15, 2020 9:12 AM
To: Amr Youssef; Hisham El Mogy
Cc: Mohamed El Saadawy; Shaimaa Sayed; Ahmed El Borady; Shady Mohamed Sherif; Ahmed Abdelkariem; Mohamed Reda Ali; Moataz Kehella; Mohamed Abass Ali Elhadidi; Fathy Shawky; Islam Fouad
Subject: RE: SIR NO.25 & SIR NO.26 need to be closed Agrood project-bad installation condition

Dear All,

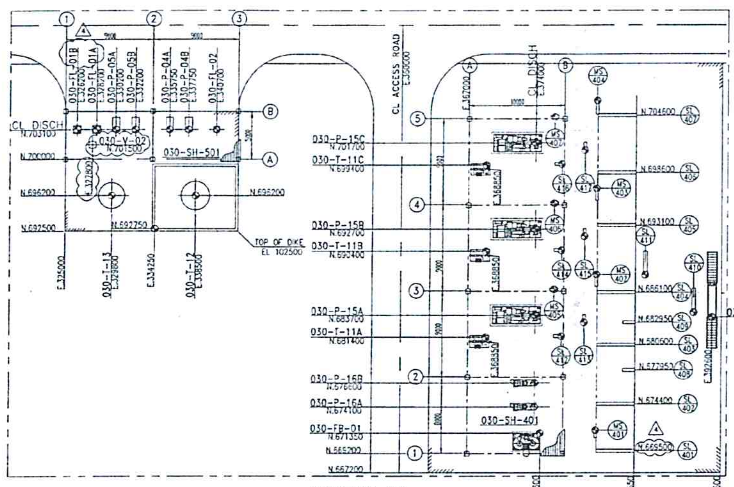
In addition to the previously submit mail, Kindly find the attached Packing list to proceed with generating the SIRs and submit is for us to be issued. Also, the Packing, Shipping, Storage, Lifting and Installation procedure to be considered.

Please notice the following (special care for pump preservation shall be considered in items 4,5, 6 below for areas)

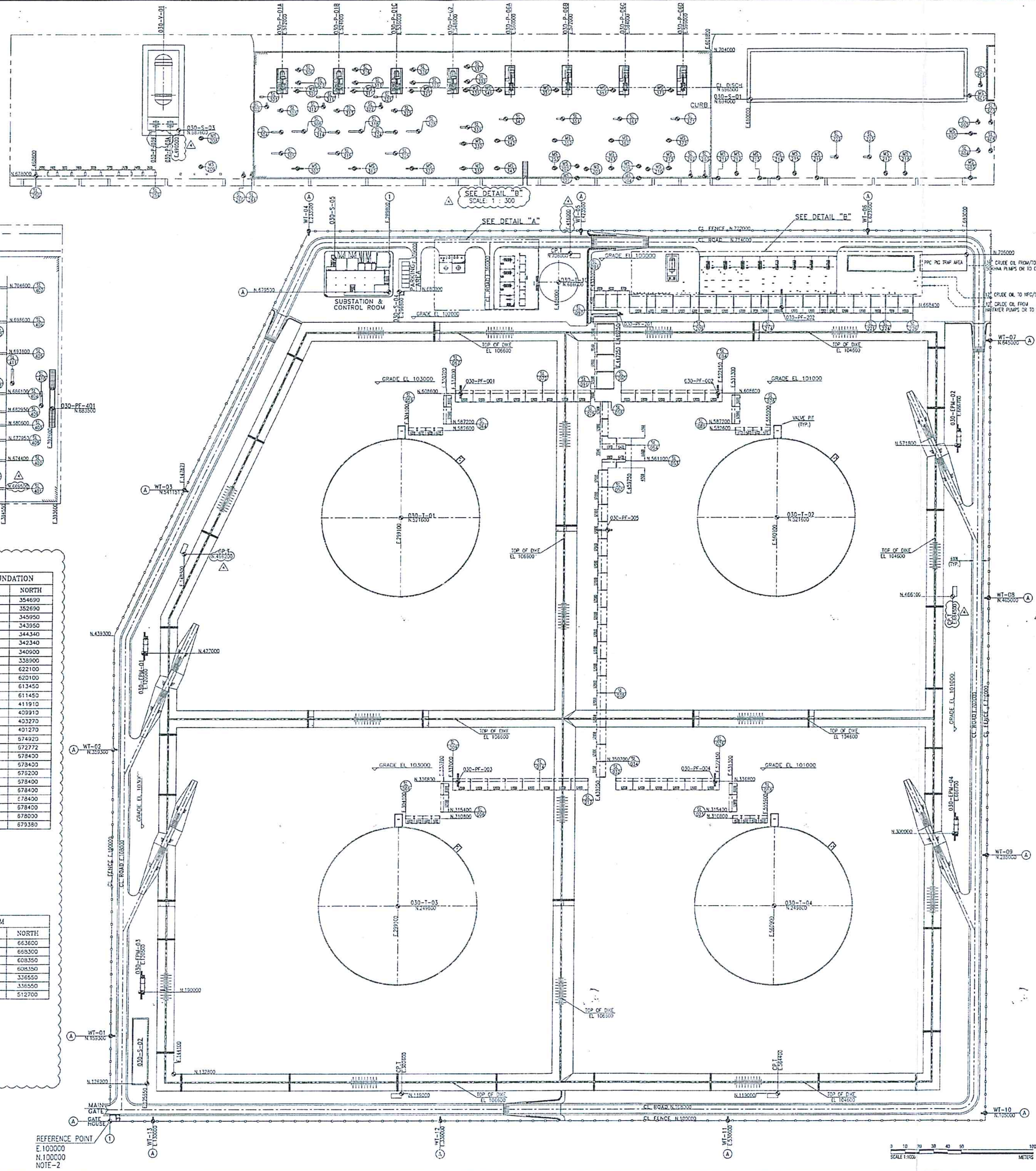
1. The pumps shall be installed in their proper location according to their tag numbers. The following table shows the pump serial against the tag no. for your consideration -the pump main name plate contains the serial number only
   (Note: marked-Up with red items is requested to correctly positioned)-.

Area	Pump Tag No.	Pump Serial No.	Installation Status
Diesel Fire Pumps			
Ras Shukier (010)	010-P-015 A	FP-C000188138-01-01	Un-Installed
	010-P-015 B	FP-C000188138-01-02	Un-Installed
	010-P-015 C	FP-C000188138-01-03	Un-Installed
Agrood Module 1 (030)	030-P-015 A	FP-C000188136-01-04	Un-Installed
	030-P-015 B	FP-C000188136-01-05	Un-Installed
	030-P-015 C	FP-C000188136-01-06	Un-Installed
Agrood Module 2 (031)	031-P-015 A	FP-C000188136-01-07	Installed in wrong position
	031-P-015 B	FP-C000188136-01-08	Installed in wrong position
	031-P-015 C	FP-C000188136-01-09	Installed in wrong position
Jockey Pumps			
Ras Shukier (010)	010-P-016 A	FP-C0192195-01	Installed in Agrood M2
	010-P-016 B	FP-C0192195-02	Installed in Agrood M2
Agrood Module 1 (030)	030-P-016 A	FP-C0192196-03	Un-Installed
	030-P-016 B	FP-C0192196-04	Un-Installed
Agrood	031-P-016 A	FP-C0192196-05	Un-Installed

Enppi Abdullah Fathy



SEE DETAIL "A"
SCALE: 1 : 250



PIPE SLEEPERS		
SL NO.	EAST	NORTH
SL-222	628150	681800
SL-223	635150	681800
SL-260	504050	678000
SL-261	505750	678000
SL-262	597700	677850
SL-263	600650	677850
SL-302	508800	692500
SL-303	511800	691700
SL-304	511850	687150
SL-305	511850	682700
SL-306	515550	700300
SL-307	515550	697550
SL-308	516650	687300
SL-312	520800	692500
SL-313	523800	691700
SL-314	523850	687150
SL-315	523850	682700
SL-316	527550	700300
SL-317	527550	697550
SL-318	528550	687300
SL-322	532800	692500
SL-323	535300	691700
SL-324	535850	687150
SL-325	535850	682700
SL-326	539550	700300
SL-327	539550	697550
SL-328	540650	687300
SL-331	551050	700900
SL-332	551050	697750
SL-333	551100	688150
SL-341	557850	689850
SL-351	569850	689850
SL-361	581850	689850
SL-371	593850	689850
SL-410	390700	684000
SL-411	385600	687900
SL-412	376750	681500
SL-413	379150	682950
SL-414	376750	690500
SL-415	379150	691950
SL-416	376750	699500
SL-417	379150	700950
SL-601	658500	696900
SL-602	658000	689050
SL-603	660700	689050
SL-604	658100	683050
SL-605	660700	683050

MISCELLANEOUS PIPE SUPPORTS		
MS NO.	EAST	NORTH
MS-201	574000	677400
MS-202	574000	679900
MS-203	575900	679300
MS-204	587000	677400
MS-205	587000	679900
MS-208	495240	685900
MS-209	495240	679900
MS-210	588900	679300
MS-211	603450	677400
MS-212	607250	678400
MS-213	612050	677400
MS-214	615900	677400
MS-215	619300	678400
MS-216	624050	677400
MS-217	638500	678400
MS-218	642600	678400
MS-301	515200	695800
MS-302	515400	679500
MS-311	527200	695800
MS-312	527400	679500
MS-321	539200	695800
MS-322	539400	679500
MS-331	550700	695950
MS-332	550300	684700
MS-333	550300	679500
MS-341	557500	695900
MS-342	557200	685300
MS-343	557200	679500
MS-351	569500	695900
MS-352	569200	685300
MS-353	569200	679500
MS-361	581500	695900
MS-362	581200	685300
MS-363	581200	679500
MS-371	593500	695900
MS-372	593200	685300
MS-373	593200	679500
MS-401	380450	671600
MS-402	380450	687900
MS-403	380450	696900
MS-404	380450	706150
MS-405	375950	686400
MS-406	375950	695400
MS-407	375950	704400
MS-601	656200	694650
MS-602	656500	686700
MS-603	656500	677400

CONCRETE FOUNDATION		
CF NO.	EAST	NORTH
CF-401	691270	354690
CF-402	691270	352690
CF-403	691270	345950
CF-404	691270	343950
CF-405	120790	344340
CF-406	120790	342340
CF-407	120790	340900
CF-408	120790	338900
CF-409	691270	622100
CF-410	691270	620100
CF-411	691270	613450
CF-412	691270	611450
CF-413	120790	411910
CF-414	120790	409910
CF-415	120790	403270
CF-416	120790	401270
CF-417	235500	674920
CF-419	234545	672772
CF-420	452630	578400
CF-422	450280	678400
CF-201	550700	676200
CF-202	499300	678400
CF-203	496450	678400
CF-204	493900	678400
CF-205	491000	678400
CF-206	457500	678000
CF-208	157500	679380

PLATFORM		
PF NO.	EAST	NORTH
PF-201	450750	663600
PF-202	563000	668300
PF-001	340550	608350
PF-002	519450	608350
PF-003	340550	336550
PF-004	519450	336550
PF-005	443500	512700

REFERENCES

DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KPP-001	OVERALL SITE PLAN
01251-100-030-AEL-01	PROJECT MASTER EQUIPMENT LIST
01251-100-030-KXB-01	PROCESS FLOW DIAGRAM

NOTES

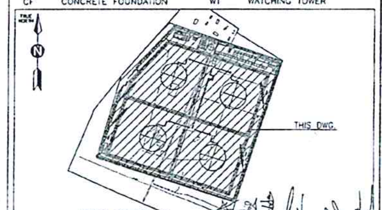
1- ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PLANT COORDINATES N 100000 MM & E 100000 MM ARE EQUIVALENT TO UTM SYSTEM N 3326453000 & E 440751000 REFERENCED FROM CONSTRUCTION CONTRACTOR (PETROJET CO.) SURVEY DRAWINGS.
3- HPFS ELEVATION 100000 IS EQUIVALENT TO TRUE ELEVATION 117000 ABOVE MEAN SEA LEVEL
4- ALL SLEEPERS AND MISCELLANEOUS SUPPORT ARE PREFIXED WITH AREA NUMBER (030).
5- WATCHING TOWER COLUMN CENTERLINE ON SAME FENCE CENTERLINE.
6- ALL FLOOD PROTECTION RECOMMENDATION PROVIDED BY CONSULTANTS SHALL BE STRICTLY FOLLOWED.
7- ALL FLOOD PROTECTION RECOMMENDATION OUTCOMES SHALL BE DONE OUTSIDE MODULE BATTERY LIMIT.

EQUIPMENT LIST

EQUIP. NO.	DESCRIPTION	ELEVATION REFERENCE
ELECTRICAL EQUIPMENT		
030-EPM-01 / 03	ELECTRICAL POWER MODULE	TOC EL 104500
030-EPM-02 / 04	ELECTRICAL POWER MODULE	TOC EL 102500
FILTERS		
030-FL-01A/B	POTABLE/UTILITIES WATER FILTERS	TOC EL 102200
030-FL-02	DIESEL OIL FILTER	TOC EL 102200
MIXERS		
030-MX-01A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-01) MIXER	-
030-MX-02A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-02) MIXER	-
030-MX-03A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-03) MIXER	-
030-MX-04A/B/C/D/E/F	CRUDE OIL STORAGE TANK (030-T-04) MIXER	-
PACKAGES		
030-FB-01	FOAM BLADDER SKID	TOC EL 102200
PUMPS		
030-P-01A/B/C	CRUDE OIL BOOSTER PUMPS	TOC EL 100200
030-P-02	CRUDE OIL MEDIUM DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-06A/B/C/D	CRUDE OIL HIGH DISCHARGE PRESSURE SHIPPING PUMPS	TOC EL 100200
030-P-03A/B	CLOSED DRAIN PUMPS	TOC EL 100200
030-P-04A/B	DIESEL OIL TRANSFER PUMPS	TOC EL 102175
030-P-05A/B	POTABLE/UTILITIES WATER FEED PUMPS	TOC EL 102150
030-P-15A/B/C	DIESEL FIRE WATER PUMPS	TOC EL 102200
030-P-16A/B	FIRE WATER JOCKEY PUMPS	TOC EL 102200
SUMPS		
030-S-01	OPEN DRAIN SUMP	TOC EL 100200
030-S-02	OPEN DRAIN SUMP	TOC EL 103200
030-S-03	CLOSED DRAIN SUMP	TOC EL 100200
030-S-04	SANITARY SEWAGE COLLECTION SUMP	TOC EL 102200
030-S-05	TRANSFORMERS OIL COLLECTING SUMP	TOC EL 102200
TANKS		
030-T-01/03	CRUDE OIL STORAGE TANK	TOC EL 103600
030-T-02/04	CRUDE OIL STORAGE TANK	TOC EL 101600
030-T-10	FIRE WATER TANK	TOC EL 102500
030-T-11A/B/C	FIRE WATER PUMPS DIESEL TANKS	TOC EL 102800
030-T-12	DIESEL TANK	TOC EL 102600
030-T-13	POTABLE/UTILITIES WATER STORAGE TANK	TOC EL 102500
VESSELS		
030-V-01	CLOSED DRAIN DRUM	TOC EL 92400
030-V-02	POTABLE/UTILITIES WATER SUPPLY VESSEL	TOC EL 102500

LEGEND

Symbol	Meaning	Abbreviation	Meaning
	CONCRETE PAVING LIMITS	CB	CONCRETE BLOCK SUPPORT
	EXISTING FACILITIES	CL	CENTER LINE
	GRATING	CP.T	CATHODIC PROTECTION TRANSFORMER
	MATCH LINE	DISCH	PUMP DISCHARGE NOZZLE
	NEW FACILITIES	EL	ELEVATION
	MAINTENANCE ACCESS/ DROP AREA	FOF	FACE OF FLANGE
	REFERENCE POINT	FS	FIXED SADDLE
	GRADE SLOPE	HPFP	HIGH POINT OF FINISHED PAVING
	ROAD SLOPE	MS	MISCELLANEOUS SUPPORT
	PRECAST CONCRETE FENCE	PF	PLATFORM
TOC	TOP OF CONCRETE	SH	SUN SHADE
TOS	TOP OF STEEL	SL	SLEEPER
CF	CONCRETE FOUNDATION	WT	WATCHING TOWER



KEY PLAN

REV	DATE	DESCRIPTION	PROCESS (PTD)	LOSS PREV (PTD)	INSTRUMENT	ELECTRICAL	CIVIL/OFFSHORE	MECHANICAL	CONST.SUP.	PIPING	DEPT.MGR	DIV.G.MGR	PEM
4	AUG 12 2020	REISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E.	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
3	MAR 08 2020	ISSUED FOR CONSTRUCTION	M.A.	M.N.	E.E	S.A.	K.H.	H.M.	A.A.	A.K.	A.F.	Y.A.	S.S.
2	NOV 14 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
1	OCT 15 2019	RE-ISSUED FOR DESIGN (TOTALLY REVISED)	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.
0	SEP 19 2019	ISSUED FOR DESIGN	A.E.	M.N.	E.E	S.A.	K.H.	H.M.	A.E.	A.K.	Y.A.	M.N.	S.S.

EGPC

COMPANY PROJ. No. : N/A
ENPPI PROJ. No. : 01251-100
FOR : EGPC
AT : AGROOD, SUEZ
لاجل الهيئة المصرية العامة للبترول
الموقع عجرود السويس

CRUDE OIL TANK FARM PROJECT
AGROOD AREA (MODULE-1)
PLOT PLAN

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	ENPPI DRAWING NUMBER	SHEET	REVISION
1:1000	01251-100-030-KPP-002	01/01	4

A0 SIZE: 1189 X 841

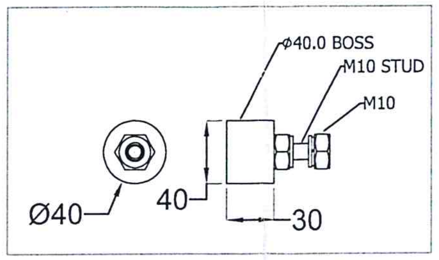
CUSTOMER NAME	PROJECT NAME	QUOTE REF.
ENPPI	NEW CRUDE OIL TANK FARM	EGQ-7414
PUMP IC 80-50-315	CAPACITY (M3/HR) 57	PRESSURE (M) 103.0
DRIVER MODEL ABB M3BP 225 SMA2	POWER (KW) 40	SPEED (RPM) 2950
CONTROLLER MODEL FIRETROL FTA550E		

WEIGHT	
PUMP:	140 kg
MOTOR:	347 kg
CONTROLLER	45 kg
BASE:	300 kg
ACC/RIES:	24 kg
TOTAL:	856 kg

MAXIMUM MAINTENANCE WEIGHT: 347 kg

TP#	PART	DESCRIPTION	SIZE
TP01	J	JOCKEY PUMP SUCTION	3" 150# RF
TP02	K	JOCKEY PUMP DISCHARGE	2" 150# RF
TP03	I	JOCKEY CASING DRAIN	1/2" 150# RF
TP19	Q	PRESSURE SENSING LINE	1/2" 150# RF
TP20	P	PRESSURE SENSING LINE DRAIN	1/2" NPT PLUGGED
TP33	M	PACKING BOX DRAIN	1/2" 150# RF
TP34	N	BASEPLATE DRAIN	1/2" 150# RF

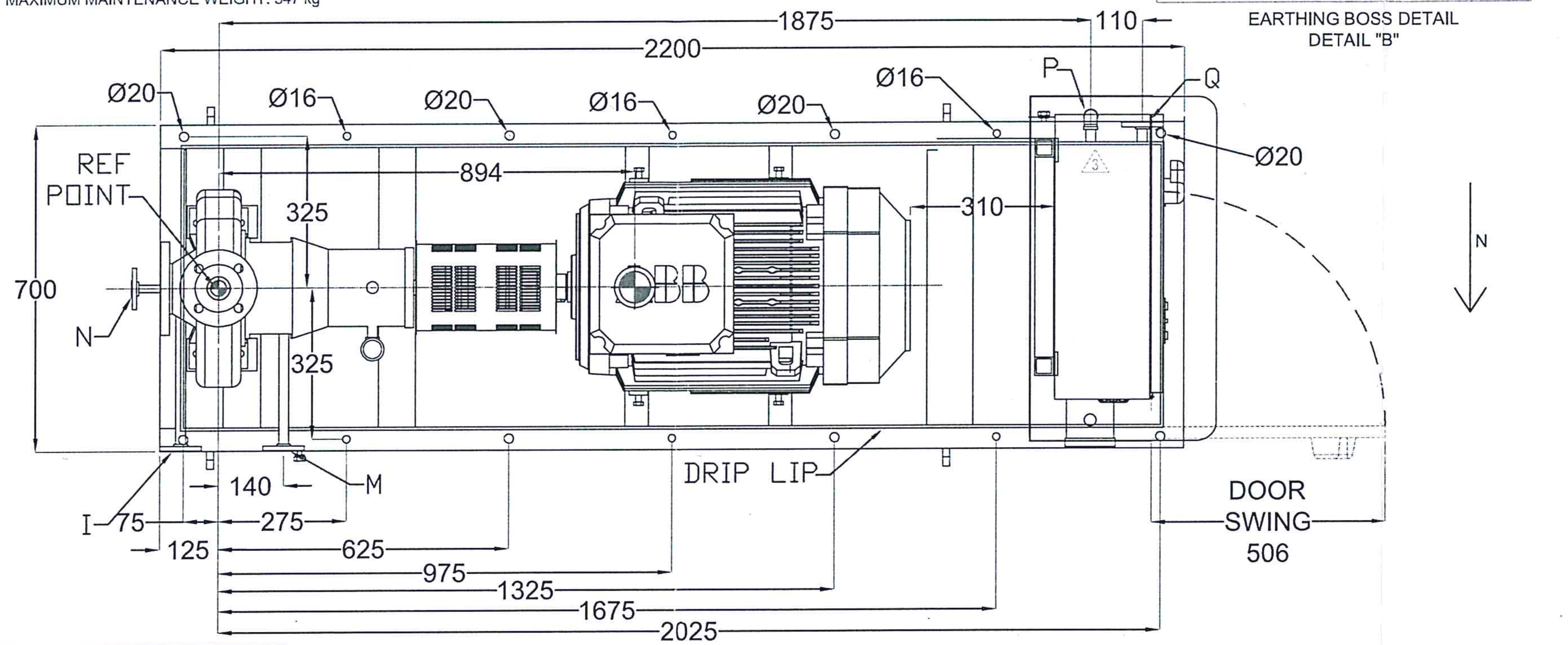
PART	DESCRIPTION	MATERIAL
A	COUPLING GUARD non sparking	BRASS
B	8 X 20mm ANCHOR BOLT HOLES	-
C	LIFTING PLATES	STEEL
D	TERMINAL BOX	CAST IRON
E	SPACER COUPLING 140mm	CARBON STEEL
F	MOTOR ALIGNMENT BLOCK (8 ITEMS)	STEEL
G	EARTHING BOSS M10	STEEL
H	LEVELING BLOCK M16 x 6	STEEL
L	CONTROL PANEL WITH SHADE	MNF. STD.

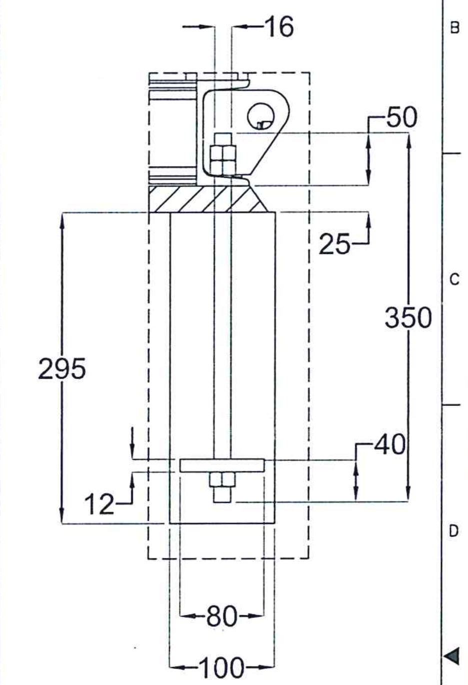


EARTHING BOSS DETAIL
DETAIL "B"

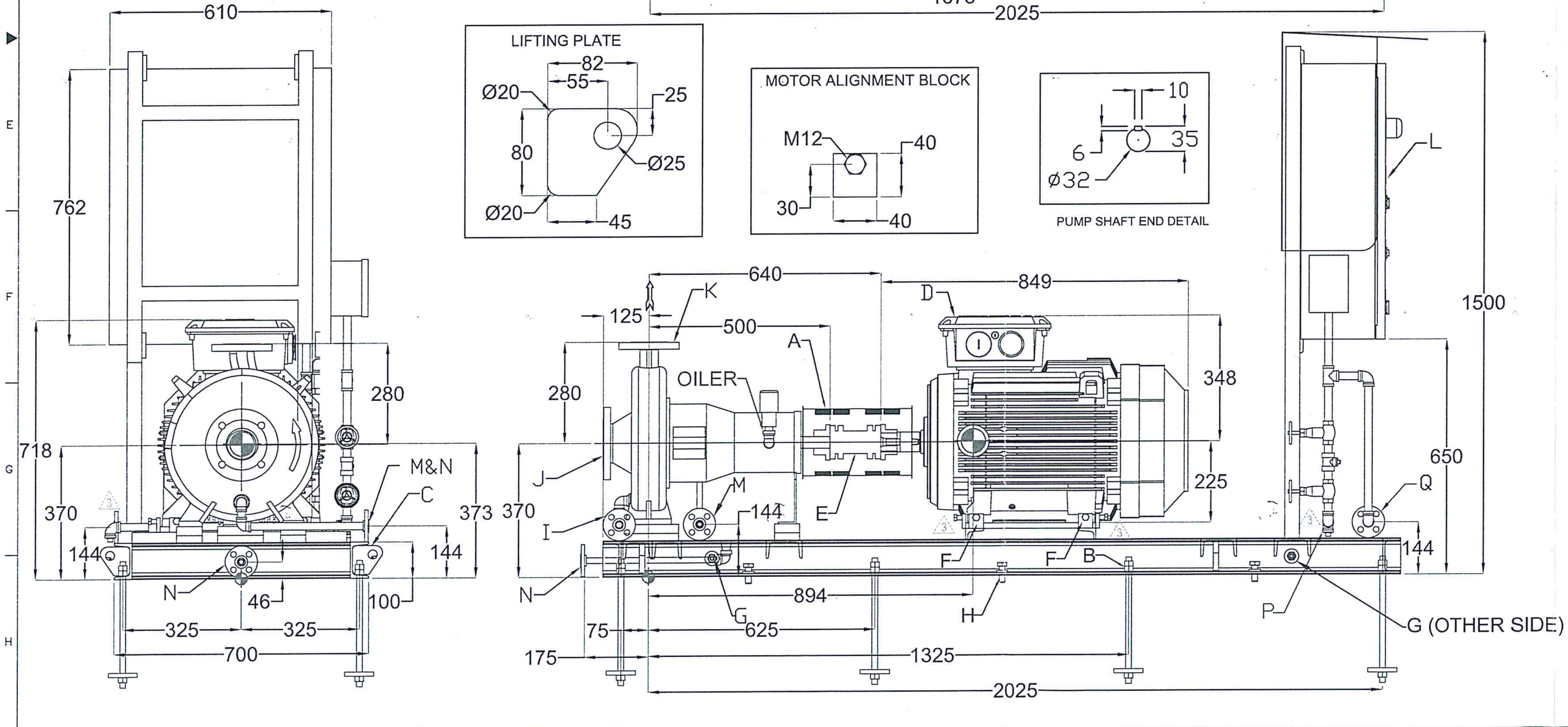
NOTES:

1. MAINTENANCE SPACE AROUND SKID: 1.0 m
2. ALL DIMENSIONS ARE IN SI UNITS (MILLIMETERS UNLESS OTHERWISE STATED)
3. PUMP FLANGES AND ALL PURCHASER INTERFACE NOZZLES COMPLY TO ASME B16.5 .





POCKET SIZE 100 x 100 x 295mm
ANCHOR BOLT M16
HOT DIP GALVANIZED
TYPE-P BY PPC, QTY: 8



REV	DESCRIPTION	DWRN	CHK'D	APP'D	DATE
3	ISSUED FOR APPROVAL	GN	GN	AG	18-MAR-2020
2	ISSUED FOR APPROVAL	GN	GN	AG	25-FEB-2020
1	ISSUED FOR APPROVAL	GN	GN	AG	11-FEB-2020
0	ISSUED FOR APPROVAL	GN	GN	AG	23-JAN-2020

END USER: Enppi

PROJECT NAME: CRUDE OIL TANK FARM

PO NUMBER: 1251-100-131-06-5

Patterson Pump Company

SEQ. NO. : E02
JOB NO. : EGQ-7414
DWG SIZE:
SCALE :

TITLE: JOCKEY PUMP GENERAL ARRANGEMENT

Tag No. : 010-P-016 A/B, 030-P-016 A/B, 040-P-016 A/B, 020-P-016 A/B, 031-P-016 A/B, 050-P-016 A/B, 021-P-016 A/B, 060-P-016 A/B

DWG NO.: ATH-JPGA-191217 | SHT: 1 OF 2 | REV: 3

Petrojet | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

INSPECTION & TEST RECORD

ROTATING EQUIPMENT FINAL ALIGNMENT

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Tag No : 30-P-16A	Description : Fire water Jockey Pump	DATE : 28/4/2021
DWG No :	Location :	REPORT NO : 29 B

RIM/AXIAL-RADIAL

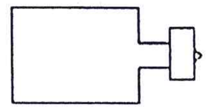
Axial

Position	Reading
0°	
90°	0
180°	+0.01
270°	0

Radial

Position	Reading
0°	
90°	-0.02
180°	-0.03
270°	-0.01

Soft Foot Readings



Foot No.	Reading
1	
2	
3	
4	

Coupling & Other Data

	Required Dimension	Actual Dimension
Coupling Gap DBSE/DBCE	140 mm	0.23

REMARKS/NOTES:

	PETROJET QC	ENPPI	PMC
Name	Tarek Abdellatif	Abdallah Fathy	Mohamed Mahmoud Abdel Sadek
Signature	[signature]	[signature]	[signature]
Date			28/04/2021

PETROJET بتروجت | Enppi | EGPC | Petroleum Pipelines Company شركة أنابيب البترول

INSPECTION & TEST RECORD

ROTATING EQUIPMENT FINAL ALIGNMENT

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

Tag No : 030 - P- 16 B	Description : Fire Water Jockey Pump	DATE : 28 - 4 - 2021
DWG No :	Location : 030	REPORT NO : 030 B

RIM/AXIAL-RADIAL

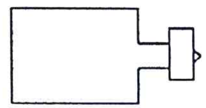
Axial

- 0°:
- 90°: +0.02
- 180°: +0.03
- 270°: +0.01

Radial

- 0°:
- 90°: +0.02
- 180°: 0
- 270°: -0.02

Soft Foot Readings



Foot No.	Reading
1	
2	
3	
4	

Coupling & Other Data

	Required Dimension	Actual Dimension
Coupling Gap DBSE/DBCE	140 mm	0.21

REMARKS/NOTES:

	PETROJET QC	ENPPI	PMC
Name	Tarek Abdellatif	For / Abdallah Fathy	Mohamed Mahmoud Abdel Saleh
Signature	[signature]	[signature]	M. A. Saleh
Date			28/04/2021

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

9.02- Motor Solo Run Certificates

Enppi PETROJET EGPC

MOTOR NO LOAD VIBRATION TEST LOG

DESCRIPTION:	FIRE WATER JOCKEY PUMP MOTOR "A"	DATE: 15-4-2021
MOTOR NUMBER:	030-PM-16A	TIME: 10:30 am – 12:00 PM
MOTOR DIRECTION OF ROTATION:	CLOCK WISE (CW) ☑	COUNTER CLOCK WISE (CCW) ☐

	DURATION (MIN)	0	30	60	90	120
DE	T (C°)	33.5°C	38.3°C	44.5°C	45.5°C	NA
	X (mm/s)	1.26	1.02	1.17	1.07	NA
	Y (mm/s)	1.26	1.2	1.19	1.2	NA
	Z (mm/s)	1	0.7	1.04	1.03	NA
NDE	DURATION (MIN)	0	30	60	90	120
	T (C°)	28.5°C	31 °C	33 °C	34 °C	NA
	X (mm/s)	1.26	1.2	1.04	1.19	NA
	Y (mm/s)	1.4	1.18	1.18	0.88	NA
	Z (mm/s)	N/A	N/A	N/A	NA	NA

COMPANY	CONSTORTIUM	PMC
NAME	Ahmed Abd El-Kariem	M. Saleh
SIGNATURE	[signature]	[signature]
DATE	15/4/21	15/04/2021

Enppi PETROJET EGPC

ELECTRICAL MOTOR NO LOAD TEST LOG

DESCRIPTION:	FIRE WATER JOCKEY PUMP MOTOR "A"		DATE: 15-4-2021
MOTOR NUMBER:	030-PM-16A		TIME: 10:30 am
MOTOR DIRECTION OF ROTATION:		CLOCK WISE (CW) ☑	COUNTER CLOCK WISE (CCW) ☐
Δ V	DURATION	At Start of Test	At End of Test
	L1/L2	399	399
	L2/L3	399	399
	L1/L3	399	399
I (A)	DURATION	At Start of Test	At End of Test
	L1	16.2	16.2
	L2	15.6	15.6
	L3	16.7	16.7

COMPANY	CONSORTIUM	PMC
NAME	for / Ahmed El Shadre	
SIGNATURE	Shadre	M. Omar
DATE	15-4-2021	15-4-2021

Enppi PETROJET EGPC

MOTOR NO LOAD VIBRATION TEST LOG

DESCRIPTION:	FIRE WATER JOCKEY PUMP MOTOR "B"		DATE: 14-4-2021			
MOTOR NUMBER:	030-PM-16B		TIME: 9:30 am			
MOTOR DIRECTION OF ROTATION:		CLOCK WISE (CW) ☑		COUNTER CLOCK WISE (CCW) ☐		
DE	DURATION (MIN)	0	30	60	90	120
	T (C°)	26.7°C	31.2°C	31.5°C	34.5°C	37°C
	X (mm/s)	1.47	1.3	1.4	1.4	1.38
	Y (mm/s)	0.5	0.47	0.638	0.75	0.73
	Z (mm/s)	0.3	0.48	0.38	0.52	0.61
NDE	DURATION (MIN)	0	30	60	90	120
	T (C°)	27.4°C	27.3°C	26.3°C	26.5°C	30°C
	X (mm/s)	1.155	1.06	1.12	1.06	1.18
	Y (mm/s)	0.57	0.61	0.64	0.81	0.84
	Z (mm/s)	NA	NA	NA	NA	NA

COMPANY	CONSTORTIUM	PMC
NAME	Ahmed Abd El-Karim	M. Saleh
SIGNATURE	[signature]	[signature]
DATE	14/4/21	14/04/2021

Enppi PETROJET EGPC

ELECTRICAL MOTOR NO LOAD TEST LOG

DESCRIPTION:	FIRE WATER JOCKEY PUMP MOTOR "B"		DATE: 14-4-2021
MOTOR NUMBER:	030-PM-16B		TIME: 9:30 am
MOTOR DIRECTION OF ROTATION:		CLOCK WISE (CW) ☑	COUNTER CLOCK WISE (CCW) ☐
ΔV	DURATION	At Start of Test	At End of Test
	L1/L2	400	400
	L2/L3	399	400
	L1/L3	400	400
I (A)	DURATION	At Start of Test	At End of Test
	L1	17.5	17.5
	L2	16.8	16.7
	L3	15.4	15.2
COMPANY		CONSORTIUM	PMC
NAME		For / Ahmed El Shafie	M. Omar
SIGNATURE		[signature]	[signature]
DATE		14-4-2021	14-4-2021

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

9.03- Mechanical Run Test (MRT) Certificates

Patterson

SITE ACCEPTANCE TEST FOR JOCKEY PUMPS

Project : CRUDE OIL TANK FARM

Contractor : ENPPI

P/O No : 1251-100-131-06-5

Patterson Ref : EGQ-7414

Pump Tag No : 030-P-16 B

Patterson	Contractor	Owner
Mohamed Abdallah	M. Attallah	mohamed omar / Mohamed Abdel...
Position	**Position**	**Position**
service engineer	Machinery Eng.	S. engineer / Senior engineer
Date	**Date**	**Date**
24/6/2021	24/6/2021	24/6/2021 / 24/06/2021

PATTERSON PUMP COMPANY LTD	SITE ACCEPTANCE TEST FOR JOCKEY PUMPS			SAT-103
	ISSUED BY: ALG	DATE: 20/JULY/11	Sheet 2 of 4	

The purpose of this procedure is to ensure correct operation of the pump at site and to gather all the necessary data required to plot the site performance curve.

This procedure is divided into two sections. The first is a system check whereby the pump skid and all related components are checked for correct installation and functionality. The second is the controller logic test, whereby the control logic and alarms are verified.

SYSTEM CHECK

The system check is further divided into three categories: Pre-start up, start up and shut down. The purpose of these checks is to isolate and correct any potential problems in order to assure trouble free operation.

Pump Data	
Pump Model	IC80-50-315
Pump Serial No	FP-C0192196-06
Rated Capacity	57 m³/hr
Rated Head	103m
Rated RPM	2950
Static pressure (suction gauge pressure before pump run)	0.2 bar.g

Driver Data	
Manufacturer	ABB
Model	M3BP 225 SMA2
Serial No.	3G1F 20046 55 728
Rated Power	40 Kw
Rated RPM	2950
Volts	400v
Site Elevation	
Ambient Temperature	+ 50°C

Controller Data	
Manufacturer	firetrol
Model	FTA 550E
Serial No.	FZ1107699
Ph/Hz/V	3/50/400
Enclosure rating	NEMA4X

M. A. Seeder

PATTERSON PUMP COMPANY LTD	SITE ACCEPTANCE TEST FOR JOCKEY PUMPS			SAT-103
	ISSUED BY: ALG	DATE: / /		

PRE-STARTUP CHECK LIST

Pump:

If using an end-suction pump, check the alignment between the pump and driver and adjust as required. Readings should be within 0.1mm (0.004") for both parallel and angular alignment.

Verify that the coupling is installed properly

Verify that the pump suction valve is open and that the suction gauge shows positive pressure.

If using a pump with gland packing, verify that a few drops of water are leaking from the stuffing box.

Controller:

Set the main circuit breaker (ON-OFF) to the ON position.

Adjust the pressure set points and delay timers:

Start Pressure: 9.5 barg Stop Pressure: 10 barg On Delay Timer: 0 s

Check the pressure sensing line for any leaks.

STARTUP CHECK LIST

Controller:

Press the START pushbutton.

Motor:

Verify that the motor is rotating as per the direction arrows.

Pump:

If using a pump with gland packing, verify that a few drops of water are leaking from the stuffing box.

Verify that water is discharging from the casing relief valve and that it is not hot.

Record the reading on the discharge pressure gauge at shutoff pressure: 12 barg

Record the reading on the suction & discharge pressure gauge : 0 & 10.1 barg.

Record pump bearing temperature: 34.5°C

Record motor bearing temperature: DE 34.5°C, NDE 34.8°C

SHUT DOWN CHECK LIST

Controller:

Shut down the unit by pressing the STOP pushbutton.

Pump:

If using a pump with gland packing, verify that a few drops of water are leaking from the stuffing box.

Note: Ensure motor manufacturer's maximum starts per hour are not exceeded.

M.A. Sadek

PATTERSON PUMP COMPANY LTD	SITE ACCEPTANCE TEST FOR JOCKEY PUMPS		SAT-103
	ISSUED BY: ALG	DATE: / /	

SPECIAL TESTS

Use calibrated test instruments. Not provided by Patterson.

PUMP / MOTOR VIBRATION READINGS ON BEARINGS (3.8 mm/s RMS

	PUMP			MOTOR					
% Flow	V	H	A	DE-V	DE-H	DE-A	NDE-V	NDE-H	NDE-A
100%	0.84	0.74	0.77	0.58	1.17	0.51	0.68	0.78	NA

CONTROLLER LOGIC CHECKS

For safety reasons, this controller can only be operated externally. Any internal logic checks need to be performed by an authorized controller specialist.

Drop the system pressure and verify that the pump starts automatically. Once system pressure is normal the pump should stop automatically.

Push Buttons & Switches:

ON-OFF isolation switch

START push button

STOP push button

NOTES

* sequence test has been successfully performed for the following pump tags 030-P-16 A/B & 030-P-15 A/B
* sensing line to be painted.
* Name plates to be installed.
* House Keeping for pumps & area to be performed.

Mohamed Abdallah
service engineer
24/6/2021

P.P.C
Mohamed Abdel Sadek
M. A. Sadek
24/06/2021

Patterson

SITE ACCEPTANCE TEST FOR JOCKEY PUMPS

Project : CRUDE OIL TANK FARM

Contractor : ENPPI

P/O No : 1251-100-131-06-5

Patterson Ref : EGQ-7414

Pump Tag No : 030-P-16 A

Patterson	Contractor	Owner
Ayman el salhy	A. Attallah	mohamed omar / Mohamed Abdulsad
Position	**Position**	**Position**
services Manager	Machinery Eng.	Sr. engineer / Senior engineer
Date	**Date**	**Date**
24/6/2021 24/Jun/2021	24/6/2021	24/6/2021 / 24/06/2021

PATTERSON PUMP COMPANY LTD	SITE ACCEPTANCE TEST FOR JOCKEY PUMPS			SAT-103
	ISSUED BY: ALG	DATE: 20/JULY/11	Sheet 2 of 4	

The purpose of this procedure is to ensure correct operation of the pump at site and to gather all the necessary data required to plot the site performance curve.

This procedure is divided into two sections. The first is a system check whereby the pump skid and all related components are checked for correct installation and functionality. The second is the controller logic test, whereby the control logic and alarms are verified.

SYSTEM CHECK

The system check is further divided into three categories: Pre-start up, start up and shut down. The purpose of these checks is to isolate and correct any potential problems in order to assure trouble free operation.

Pump Data	
Pump Model	IC 80-50-315
Pump Serial No	FP-C019219 6-05
Rated Capacity	57 m³/hr
Rated Head	103 m
Rated RPM	2950
Static pressure (suction gauge pressure before pump run)	0.2 bar.g

Driver Data	
Manufacturer	ABB
Model	M3BP 225SMA2
Serial No.	3GIF 2004 655 727
Rated Power	40 Kw
Rated RPM	2950
Volts	400.V
Site Elevation	
Ambient Temperature	+50°C

Controller Data	
Manufacturer	Firetrol
Model	FTA550E
Serial No.	FZ110 7688
Ph/Hz/V	3/50/400
Enclosure rating	NEMA 4X

[signature]

PATTERSON PUMP COMPANY LTD	SITE ACCEPTANCE TEST FOR JOCKEY PUMPS			SAT-103
	ISSUED BY: ALG	DATE: / /		

PRE-STARTUP CHECK LIST

Pump:

If using an end-suction pump, check the alignment between the pump and driver and adjust as required. Readings should be within 0.1mm (0.004") for both parallel and angular alignment.

Verify that the coupling is installed properly

Verify that the pump suction valve is open and that the suction gauge shows positive pressure.

If using a pump with gland packing, verify that a few drops of water are leaking from the stuffing box.

Controller:

Set the main circuit breaker (ON-OFF) to the ON position.

Adjust the pressure set points and delay timers:

Start Pressure: 9.5 bar.g Stop Pressure: 10 bar.g On Delay Timer: 0s

Check the pressure sensing line for any leaks.

STARTUP CHECK LIST

Controller:

Press the START pushbutton.

Motor:

Verify that the motor is rotating as per the direction arrows.

Pump:

If using a pump with gland packing, verify that a few drops of water are leaking from the stuffing box.

Verify that water is discharging from the casing relief valve and that it is not hot.

Record the reading on the discharge pressure gauge at shutoff pressure: 12.7 bar.g.

Record the reading on the suction & discharge pressure gauge : 0 & 10 bar.g.

Record pump bearing temperature: 36.3°C

Record motor bearing temperature: DE 38°C , NDE 36.5°C

SHUT DOWN CHECK LIST

Controller:

Shut down the unit by pressing the STOP pushbutton.

Pump:

If using a pump with gland packing, verify that a few drops of water are leaking from the stuffing box.

Note: Ensure motor manufacturer's maximum starts per hour are not exceeded.

W. A. Saeed

PATTERSON PUMP COMPANY LTD	SITE ACCEPTANCE TEST FOR JOCKEY PUMPS			SAT-103
	ISSUED BY: ALG	DATE: / /		

SPECIAL TESTS

Use calibrated test instruments. Not provided by Patterson.

PUMP / MOTOR VIBRATION READINGS ON BEARINGS (3.8 mm/s RMS

	PUMP			MOTOR					
% Flow	V	H	A	DE-V	DE-H	DE-A	NDE-V	NDE-H	NDE-A
100%	1.12	1.18	1	0.66	1.1	0.83	1.46	0.92	NA

CONTROLLER LOGIC CHECKS

For safety reasons, this controller can only be operated externally. Any internal logic checks need to be performed by an authorized controller specialist.

Drop the system pressure and verify that the pump starts automatically. Once system pressure is normal the pump should stop automatically.

Push Buttons & Switches:

ON-OFF isolation switch

START push button

STOP push button

NOTES

* sequence test has been performed for the following tags 030-P-15 A/B & 030-P-16 A/B of the fire pumps successfully.
* sensing line to be painted.
* Name plates to be installed.
* housekeeping to be performed.

24/6/2021

RPC
Mohamed Abdul Sadek
24/06/2021

Patterson

SITE ACCEPTANCE TEST
FOR CUMMINS ENGINE DRIVEN PUMPS
AND FIRETROL FTA1100 CONTROLLERS

Project : **CRUDE OIL TANK FARM**

Contractor : **ENPPI**

P/O No : **1251-100-131-06-5**

Patterson Ref : **EGQ-7414**

Pump Tag No : **030-P-15 A**

Patterson	Contractor	Owner
Ayman el salhy	A. Attallah	Mohamed Omar / Mohamed Abdelsadk
Position	Position	Position
services Manager	Machinery Eng.	S. engineer / senior engineer
Date	Date	Date
24/6/2021 24/6/2021	24/6/2021	24/6/2021 / 24/6/2021

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: 23/APRIL/19	Sheet 2 of 8	

The purpose of this procedure is to ensure correct operation of the pump at site and to gather all the necessary data required to plot the site performance curve.

This procedure is divided into three sections. The first is a system check whereby the fire pump skid and all related components are checked for correct installation and functionality. The second is the flow test, whereby the pump and engine performance are determined. The third is the controller logic test, whereby the control logic and alarms are verified.

SYSTEM CHECK

The system check is further divided into three categories: Pre-start up, start up and shut down. The purpose of these checks is to isolate and correct any potential problems in order to assure trouble free operation.

Pump Data	
Pump Model	12*8 MMA
Pump Serial No	FP-C000188136-01-04
Rated Capacity	800 m3/hr
Rated Head	96 m
Rated RPM	1750
Diameter of pipe at suction gauge	16"
Height from pump centerline to suction gauge centerline	
Diameter of pipe at discharge gauge	12"
Height from pump centerline to discharge gauge centerline	
Static pressure (suction gauge pressure before pump run)	0.5 barg.

Engine Data	
Manufacturer	Cummins
Model	CFP 15E-F10
Serial No	80256488
Rated Power	343 Kw@ 25°C
Rated RPM	1760
Volts	220V
Site Elevation	
Ambient Temperature	+50°C

Controller Data	
Manufacturer	Firetrol
Model	FTA 1100
Serial No.	FZ1107737
Enclosure rating	NEMA 4X

M. U. Sadath

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
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PRE-STARTUP CHECK LIST

Pump:

Check the alignment between the pump and driver.

- If coupling is used, ensure alignment tolerance is within 0.1mm, parallel and angular.
- If driveshaft is used, ensure DBSE between hub flanges is equal at 0°, 90°, 180° and 270°. Tolerance is 0.5 mm.

Verify that the valves on the seal water piping are open.

Verify that the pump suction valve is open and that the suction gauge shows positive pressure.

Verify that a few drops of water per second are leaking from each stuffing box.

Verify that the Air Release Valve (ARV) on the pump is not blocked by opening the by-pass air vent valve on the seal water piping and verifying that water is present.

Engine & Fuel Tank:

Check fuel tank cleanliness before fuel filling.

Check the level gauge of the fuel tank and verify that there is fuel.

Verify that the fuel supply valve is open.

Verify that the air filter is not blocked.

Verify that the oil level is correct.

Verify that the coolant level is correct. Do not open the cap if the engine is hot!!!

Verify that the selector switch on the diesel engine gauge board is turned to AUTO.

Verify that the cooling loop ball valves are in open position and that the bypass is closed.

Verify that batteries are connected to the engine properly and that their electrolyte level is correct.

Record the hours on the engine's run hour meter: 8.3 hrs

Controller:

Check the electrical supply to the controller.

Verify that the main switch (Manual-OFF-Auto) is in the OFF position.

Verify that all circuit breakers inside the controller are in the ON position.

Verify that the interconnecting wiring between the engine and controller is installed correctly (terminal nos. 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 301, 302, 303, 304, 310, 311, 312)

Adjust the pressure set points and delay timers:

Start Pressure: 9 barg Stop Pressure: 10 barg. On Delay Timer: 15 s

Record voltage across each battery: Batt#1: 26.6 VDC Batt#2: 26.5 VDC

Check charging voltage on controller display.

Check the pressure sensing line for any leaks.

M. A. Saadeh

<table>
<tr><td rowspan="2">PATTERSON PUMP COMPANY LTD</td><td colspan="3">SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS</td><td rowspan="2">SAT-101A-0</td></tr>
<tr><td>ISSUED BY:
ALG</td><td>DATE:
/ /</td><td></td></tr>
</table>

STARTUP CHECK LIST

Controller:

Set the selector switch to MANUAL.

Crank the engine form BATTERY #1 CRANK pushbutton until the engine runs. (See below for alternative starting methods).

Engine:

Check that there are no leaks around the engine.

Check the oil pressure gauge and verify that oil pressure is between 40-50 psi.

Check the temperature gauge and verify that the temperature gauge does not exceed 95°C.

Verify that the engine cooling loop discharge is discharging water.

Check exhaust gases and make sure there is no heavy smoke being emitted.

Verify that the engine is running at rated speed.

Pump:

Verify that a few drops of water per second to a small stream is leaking from each stuffing box.

Check the pump bearing and packing gland temperature. They should not exceed 85 ^{0}C.

SHUT DOWN CHECK LIST

Controller:

Shut down the unit by turning the mode selector switch to the OFF position.

Engine:

Verify that all the engine gauges go to “zero” except for the engine temperature gauge.

Verify that there is no more water flow at the cooling loop discharge.

Pump:

Verify that a few drops of water per second are leaking from each stuffing box.

ALTERNATIVE START CHECK LIST

Set the selector switch to MANUAL and crank using BATTERY #2 CRANK pushbutton.

Set the engine’s selector switch to MANUAL and pull Manual Contactor #1.

Set the engine’s selector switch to MANUAL and pull Manual Contactor #2.

Set the selector switch to AUTO and drop system pressure (press TEST pushbutton).

Set the selector switch to AUTO and crank the engine from the control room or place a jumper between terminals 13 and 14.

M. A. Saddik

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
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FLOW TEST PROCEDURE

Verify that the main valves to the system are closed.

Verify that the test line valves are open. Use the valve downstream from the flow meter as the throttling valve and start flow test with this valve closed.

Verify that all by-pass valves, minimum flow lines, and relief valves are closed (except for casing relief valves, if applicable).

PUMP FLOW TEST

	% Flow	Time (hh:mm)	Suction Pressure (PSI / BAR)	Discharge Pressure (PSI / BAR)	Flow (GPM / m^3/h)	Pump Speed (RPM)
1	0%	11:41	0.5	11.9	0	1800
2	71% ~~50%~~	11:37	0.45	11	2500	1800
3	85% ~~80%~~	11:35	0.4	10.4	3000	1800
4	100%	11:30	0.35	9.8	3500	1800
5	130%	11:28	0.25	8.2	4500	1810
6	150%	11:24	0.2	7.1	5250	1802

ENGINE LOG

	Engine Speed (RPM)	Coolant Temp. (°C)	Oil Pres. (PSI/~~kPa~~)	Cooling Water Pres. (PSI/BAR)	Raw Water Inlet Temp (°C)	Raw Water Outlet Temp (°C)	Other
1	1800	82	38	20	36.3	43	
2	1800	83	37	20	34	44	
3	1800	83	38	19	32.2	43	
4	1800	83	37	18	32.2	43	
5	1810	83	37	17	32.2	43	
6	1802	83	37	16	32.6	43	

PUMP BEARING & GLAND TEMPERATURES (85°C MAX or Ambient +39°C)

	DE BEARING	DE GLAND	NDE BEARING	NDE GLAND
1	35.7	33	45	33.5
2	38.6	33.5	48	34
3	41.4	35	50	36
4	42	35.5	55	37
5	43.5	35	55	37.3
6	44.1	36.7	56	38

1.1/A. Saulo

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
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SPECIAL TESTS

Use calibrated test instruments. Not provided by Patterson.

PUMP VIBRATION READINGS ON BEARINGS (10 mm/s RMS MAX)					
% Flow	DE Vertical	DE Horizontal	NDE Vertical	NDE Horizontal	NDE Axial
100%	9.2	8.2	7.3	9	6.9

PRESSURE RELIEF VALVE (PRV) ADJUSTMENT

The purpose of the PRV is to protect the system piping from over-pressurization in case of engine over-speed. The PRV should be set to open just above the pump's shut-off pressure.

Close valves on discharge line and test line (shutoff) and run the pump at rated speed.

Open the PRV by turning the adjustment screw of its regulating valve counter clockwise. Use the sight glass on the waste cone (downstream of the relief valve) to check for flow.

Once flow is visible, close the PRV slowly until the flow stops.

M. A. Suddell

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
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CONTROLLER LOGIC CHECKS AND LOCAL ALARMS

Push Buttons & Switches:

- ❑ Manual-OFF-Auto selector switch
- ❑ Crank on Battery #1 push button
- ❑ Crank on Battery #2 push button
- ❑ Stop/Reset push button
- ❑ Test push button *(selector switch must be set to AUTO)*

Alarm Signals on MARK III interface:

- ❑ AC Power Available *(set circuit breaker 1CB to ON)*
- ❑ Alarm *(will be activated automatically with any alarm)*
- ❑ Main Switch in Auto *(set selector switch to AUTO)*
- ❑ Main Switch in Manual *(set selector switch to MANUAL)*
- ❑ System Pressure Low *(drain pressure sensing line or press TEST pushbutton)*
- ❑ Engine Running *(start engine)*
- ❑ Engine Failed to Start *(disconnect terminals 9 and 10. Set selector switch to AUTO. Drop system pressure or press TEST pushbutton. Wait 3 minutes for alarm & time delay where applicable)*
- ❑ Engine Temp High *(place jumper between terminals 5 and 11)*
- ❑ Engine Oil Pressure Low *(place jumper between terminals 4 and 11 while engine is running)*
- ❑ Engine Overspeed *(activate overspeed alarm from engine panel)*
- ❑ Engine Alternate ECM *(press the ALTERNATE ECM pushbutton on the engine panel)*
- ❑ Engine Fuel Injector Malfunction *(place jumper between terminals 11 and 302)*
- ❑ Low Fuel Level *(place jumper between terminals 59 and 60)*
- ❑ Automatic Shutdown Disabled *(activate from the Mark II display board)*
- ❑ Charger Malfunction *(set circuit breaker CB 1 & 2 to OFF)*
- ❑ Battery #1 Trouble *(set circuit breaker CB 3 to OFF)*
- ❑ Battery #2 Trouble *(set circuit breaker CB 4 to OFF)*

Remote Signals:

- ❑ Remote Start *(place jumper between terminals 13 and 14)*
- ❑ Weekly test due
- ❑ Controller on manual/Auto
- ❑ Low fuel level
- ❑ Common trouble
- ❑ Engine running
- ❑ Engine failed to start

Other Features:

- ❑ Space Heater (adjust humidistat and check for heat being emitted by hand. Do not touch heater!!!)

M. A. Sadlik

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
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NOTES

* sequence test has been successfully performed for the fire pumps with the following tags 030-P-15 A/B & 030-P-16 A/B
* sensing line, fuel line & venturi flow meter to be painted (PTJ)
* Name plates to be installed (PTJ).
* House keeping for the pump & the area to be performed (PTJ).
* the strainer fine mesh was removed as per MESC/patterson advice.
* Engine fuel tank level sensor to be installed properly (PTJ).
* Lube oil and Engine coolant to be refilled later By MESC / Patterson.

Punch closed 24/11/2021
Performed change oil in 24/11/2021 by Paterson Team.
23/11/2021
24/11/2021
M.A. Sadek

P.P.C

Eng. A. Elsally / Mohamed Abdul Sadek

24/6/2021 M.A. Sadek 24/06/2021

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

9.04- Mechanical Commissioning Checklists

PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS AND FIRETROL FTA550E CONTROLLERS

Project : CRUDE OIL TANK FARM

Contractor : ENPPI

P/O No : 1251-100-131-06-5

Patterson Ref : EGQ-7414

Pump Tag No : 030-P-16 A

Patterson	Contractor	Owner
Aymanelsalhy	A. Atallah	mohamed omar Mohamed Abdel Sadek
Position	**Position**	**Position**
services Manager	Machinery Eng.	Engineer Senior engineer
Date	**Date**	**Date**
24/6/2021 24/6/2021	24/6/2021	24/6/2021 / 24/06/2021

PATTERSON PUMP COMPANY LTD	PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS			SAT-100 (rev. 2)
	ISSUED BY: ALG	DATE: / /		

HORIZONTAL JOCKEY PUMP SKID

No.	Activity	Yes / No
1.	The skid has been leveled and tightened	y
2.	The skid has been anchored and grouted with non-shrink grout	y
3.	The skid has been filled to top with concrete	y
4.	Suction piping has been installed without nozzle loads and hydro tested	y
5.	Discharge piping has been installed without nozzle loads and hydro tested	y
6.	All pipes have been supported and pipe clamping has been installed	y
7.	The pump and driver are aligned to 0.1mm in all directions	y
8.	Casing relief valve drain piping has been installed (separately from other drains)	y
9.	Pressure sensing line is installed	y
10.	Cabling between MCC to controller and controller to motor is complete	y
11.	Megger testing is complete and power from MCC is ready to be connected	y
12.	The breaker and overload in the MCC are rated according to the motor requirements	y
13.	Suction/discharge gauges have been installed	y
14.	Remote alarm signals have been connected to FGS	y

Note : First fill of engine liquids by Patterson / Sub-Vendor.

PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS AND FIRETROL FTA1100 CONTROLLERS

Project : CRUDE OIL TANK FARM

Contractor : ENPPI

P/O No : 1251-100-131-06-5

Patterson Ref : EGQ-7414

Pump Tag No : 030-P-15 B

Patterson	Contractor	Owner
Mohamed Abdallah	[signature]	mohamed omar Mohamed Abdel Sadek
Position	Position	Position
service Engineer	Mech. Eng.	engineer senior engineer
Date	Date	Date
24/6/2021	24/6/2021	24/6/2021 24/06/2021

PATTERSON PUMP COMPANY LTD	PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS			SAT-100 (rev. 2)
	ISSUED BY: ALG	DATE: / /		

The purpose of this check list is to ensure that the pump installation is ready for commissioning before Patterson's service engineers arrive at site. This is so that commissioning can proceed without delays or problems.

Confirmation of completion is required on each of the following points in order for Patterson to schedule a commissioning visit. If there are any questions please contact Patterson for assistance.

GENERAL REQUIREMENTS

No.	Activity	Yes / No
1.	The fire water tank is ready and full of water to maximum level	N - 2.8m
2.	The pump area is clean and all scaffolding has been removed	y
3.	The DCS or other remote control system is operational	y
4.	All work permits are ready and the pump(s) can be started	y

HORIZONTAL DIESEL FIRE PUMP SKID

No.	Activity	Yes / No
1.	The skid has been leveled and tightened	y
2.	The skid has been anchored and grouted with non-shrink grout	y
3.	The skid has been filled to top with concrete	y
4.	Suction piping has been installed without nozzle loads, and hydro tested	y
5.	Discharge piping has been installed without nozzle loads, and hydro tested	y
6.	Pressure relief line has been installed, and hydro tested	y
7.	Pressure relief valve has been installed	y
8.	Test line and flow meter have been installed, and hydro tested	y
9.	Exhaust piping and muffler have been installed	y
10.	All pipes have been supported and pipe clamping has been installed	y
11.	The pump and driver are aligned to 0.1mm in all directions	NA
	If driveshaft is used, DBSE and driveshaft angle are as per IOM	y
12.	Heat exchanger discharge has been piped to tank or drain	y
13.	Pump/skid drains have been installed and piped to drain	y
14.	Pressure sensing line is installed with check valves pointing away from controller	y
15.	Fuel tank has been installed and is filled with fuel	N - 75%
16.	Fuel tank instruments have been installed and connected	y
17.	Fuel piping supply and return lines are connected	y
18.	Batteries have been installed next to skid and battery cables are available . Where applicable, battery electrolyte to be available.	y
19.	220VAC permanent power is connected to the diesel controller or distribution panel	y
20.	Suction/discharge gauges have been installed	y

PATTERSON PUMP COMPANY LTD	PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS			SAT-100 (rev. 2)
	ISSUED BY: ALG	DATE: / /		

21.	The engine has been filled with coolant (refer to the lubricant list doc.) *(refer to note)*	Y
22.	The engine has been filled with oil (refer to the lubricant list document) *(refer to note)*	Y
23.	Remote alarm signals have been connected to FGS	Y

Note : First fill of engine liquids by Patterson / Sub-Vendor.

PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS AND FIRETROL FTA1100 CONTROLLERS

Project : CRUDE OIL TANK FARM

Contractor : ENPPI

P/O No : 1251-100-131-06-5

Patterson Ref : EGQ-7414

Pump Tag No : 030-P-15 A

Patterson	Contractor	Owner
Ayman el salhy	G. Attallah	mohamed omer / Mohamed A Sadek
Position	Position	Position
services Manager	Machinery. Eng.	S. engineer / S. engineer
Date	Date	Date
24/6/2021	24/6/2021	24/6/2021 / 24/6/2021
24/6/2021		

PATTERSON PUMP COMPANY LTD	PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS			SAT-100 (rev. 2)
	ISSUED BY: ALG	DATE: / /		

The purpose of this check list is to ensure that the pump installation is ready for commissioning before Patterson's service engineers arrive at site. This is so that commissioning can proceed without delays or problems.

Confirmation of completion is required on each of the following points in order for Patterson to schedule a commissioning visit. If there are any questions please contact Patterson for assistance.

GENERAL REQUIREMENTS

No.	Activity	Yes / No
1.	The fire water tank is ready and full of water to maximum level	N-2.8m
2.	The pump area is clean and all scaffolding has been removed	y
3.	The DCS or other remote control system is operational	y
4.	All work permits are ready and the pump(s) can be started	y

HORIZONTAL DIESEL FIRE PUMP SKID

No.	Activity	Yes / No
1.	The skid has been leveled and tightened	y
2.	The skid has been anchored and grouted with non-shrink grout	y
3.	The skid has been filled to top with concrete	y
4.	Suction piping has been installed without nozzle loads, and hydro tested	y
5.	Discharge piping has been installed without nozzle loads, and hydro tested	y
6.	Pressure relief line has been installed, and hydro tested	y
7.	Pressure relief valve has been installed	y
8.	Test line and flow meter have been installed, and hydro tested	y
9.	Exhaust piping and muffler have been installed	y
10.	All pipes have been supported and pipe clamping has been installed	y
11.	The pump and driver are aligned to 0.1mm in all directions	N/A
	If driveshaft is used, DBSE and driveshaft angle are as per IOM	y
12.	Heat exchanger discharge has been piped to tank or drain	y
13.	Pump/skid drains have been installed and piped to drain	y
14.	Pressure sensing line is installed with check valves pointing away from controller	y
15.	Fuel tank has been installed and is filled with fuel	N-50%
16.	Fuel tank instruments have been installed and connected	y
17.	Fuel piping supply and return lines are connected	y
18.	Batteries have been installed next to skid and battery cables are available . Where applicable, battery electrolyte to be available.	y
19.	220VAC permanent power is connected to the diesel controller or distribution panel	y
20.	Suction/discharge gauges have been installed	y

PATTERSON PUMP COMPANY LTD	**PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS**			**SAT-100** (rev. 2)
	ISSUED BY: ALG	DATE: / /		

21.	The engine has been filled with coolant (refer to the lubricant list doc.) *(refer to note)*	y
22.	The engine has been filled with oil (refer to the lubricant list document) *(refer to note)*	y
23.	Remote alarm signals have been connected to FGS	y

Note : First fill of engine liquids by Patterson / Sub-Vendor.

PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS AND FIRETROL FTA550E CONTROLLERS

Project : CRUDE OIL TANK FARM

Contractor : ENPPI

P/O No : 1251-100-131-06-5

Patterson Ref : EGQ-7414

Pump Tag No : 030-P-16 B

Patterson	Contractor	Owner
Mohamed Abdallah	[signature]	mohamed omar / Mohamed Abdul Seadek
Position	Position	Position
service engineer	Machinery Eng.	I. engineer / S. Mainten engineer
Date	Date	Date
24/6/2021	24/6/2021	24/6/2021 / 24/06/2021

PATTERSON PUMP COMPANY LTD	PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS			SAT-100 (rev. 2)
	ISSUED BY: ALG	DATE: / /		

HORIZONTAL JOCKEY PUMP SKID

No.	Activity	Yes / No
1.	The skid has been leveled and tightened	y
2.	The skid has been anchored and grouted with non-shrink grout	y
3.	The skid has been filled to top with concrete	y
4.	Suction piping has been installed without nozzle loads and hydro tested	y
5.	Discharge piping has been installed without nozzle loads and hydro tested	y
6.	All pipes have been supported and pipe clamping has been installed	y
7.	The pump and driver are aligned to 0.1mm in all directions	y
8.	Casing relief valve drain piping has been installed (separately from other drains)	y
9.	Pressure sensing line is installed	y
10.	Cabling between MCC to controller and controller to motor is complete	y
11.	Megger testing is complete and power from MCC is ready to be connected	y
12.	The breaker and overload in the MCC are rated according to the motor requirements	y
13.	Suction/discharge gauges have been installed	y
14.	Remote alarm signals have been connected to FGS	y

Note : First fill of engine liquids by Patterson / Sub-Vendor.

PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS AND FIRETROL FTA1100 CONTROLLERS

Project : **CRUDE OIL TANK FARM**

Contractor : **ENPPI**

P/O No : **1251-100-131-06-5**

Patterson Ref : **EGQ-7414**

Pump Tag No : **030-P-15 C**

Patterson / MESC	Contractor	Owner
A Mohamed elsally	Haytham Afr.	Mohamed Abdul Sadek M.A. Sadek
Position	**Position**	**Position**
service Manager	Mech. engineer.	operation Manag
Date	**Date**	**Date**
13/7/2021 ~~13/7/2021~~	8/7/2021	13/7/2021

PATTERSON PUMP COMPANY LTD	PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS			SAT-100 (rev. 2)
	ISSUED BY: ALG	DATE: / /		

The purpose of this check list is to ensure that the pump installation is ready for commissioning before Patterson's service engineers arrive at site. This is so that commissioning can proceed without delays or problems.

Confirmation of completion is required on each of the following points in order for Patterson to schedule a commissioning visit. If there are any questions please contact Patterson for assistance.

GENERAL REQUIREMENTS

No.	Activity	Yes / No
1.	The fire water tank is ready and full of water to maximum level 4m	Partially
2.	The pump area is clean and all scaffolding has been removed	Yes
3.	The DCS or other remote control system is operational (Temprorary power supply)	Yes
4.	All work permits are ready and the pump(s) can be started	Yes

HORIZONTAL DIESEL FIRE PUMP SKID

No.	Activity	Yes / No
1.	The skid has been leveled and tightened	Yes
2.	The skid has been anchored and grouted with non-shrink grout	Yes
3.	The skid has been filled to top with concrete	Yes
4.	Suction piping has been installed without nozzle loads, and hydro tested	Yes
5.	Discharge piping has been installed without nozzle loads, and hydro tested	Yes
6.	Pressure relief line has been installed, and hydro tested	Yes
7.	Pressure relief valve has been installed	Yes
8.	Test line and flow meter have been installed, and hydro tested	Yes
9.	Exhaust piping and muffler have been installed	Yes
10.	All pipes have been supported and pipe clamping has been installed	Yes
11.	The pump and driver are aligned to 0.1mm in all directions	N.A
	If driveshaft is used, DBSE and driveshaft angle are as per IOM	Yes
12.	Heat exchanger discharge has been piped to tank or drain	Yes
13.	Pump/skid drains have been installed and piped to drain	Yes
14.	Pressure sensing line is installed with check valves pointing away from controller	Yes
15.	Fuel tank has been installed and is filled with fuel	Partially
16.	Fuel tank instruments have been installed and connected	Yes
17.	Fuel piping supply and return lines are connected	Yes
18.	Batteries have been installed next to skid and battery cables are available . Where applicable, battery electrolyte to be available.	Yes
19.	220VAC permanent power is connected to the diesel controller or distribution panel	Temprorary
20.	Suction/discharge gauges have been installed	Yes

M. A. Saleh

PATTERSON PUMP COMPANY LTD	PRE-COMMISSIONING CHECK LIST FOR FIRE PUMPS			SAT-100 (rev. 2)
	ISSUED BY: ALG	DATE: / /		

21.	The engine has been filled with coolant (refer to the lubricant list doc.) *(refer to note)*	Yes
22.	The engine has been filled with oil (refer to the lubricant list document) *(refer to note)*	Yes
23.	Remote alarm signals have been connected to FGS	Yes

Note : First fill of engine liquids by Patterson / Sub-Vendor.

Enppi

COMMISSIONING CHECK LIST
JOCKEY PUMPS
ME-07 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)		
PROJECT NUMBER	: 1251-100		
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network		
COMMODITY ID	: 030-LP-010	**DISCIPLINE**	: Mechanical
REF. DWGs/DOCs	: 030-P-16A		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Ensure That the Pre-Commissioining Check List is Completed.	ok	
2	Check free rotation for pump, motor (and all other auxiliaries).	ok	
3	Check motor / pump alignment per manufacturer instructions.	ok	
4	Check greasing of electric motor with supplier recommended type of lubricants (as per Manufacturer instruction manual).	ok	
5	Check pump's motor (and other auxiliary motors) direction of rotation (Motor Solo Run) while measuring electric motor phases currents measurements.	ok	
6	Check greasing of all auxiliary motor with supplier recommended type of lubricants (as per Manufacturer instruction manual).	ok	
7	Proper operation of constant level oiler and level glasses, venting all top point, drain valve at lowest points, lube oil filter ... etc. (as applicable)	ok	
8	Properly clean suction piping, install suction strainer, make sure that all main & auxiliary piping connections are blinded throughout fabrication, pre-commissioning ... etc. up to clean and dry status of process	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Naveen Othman / elsalhy	Mohamed Abdelsseddle
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	M. A. Seddik
DATE		24/6/2021 / 24/6/2021	24/6/2021

Enppi

COMMISSIONING CHECK LIST
JOCKEY PUMPS
ME-07 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Mechanical
REF. DWGs/DOCs	: 030-P-16A

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
9	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	ok	
10	Check All Instrument Function Checks are Completed.	Loss P.	
11	Functionally check all interfaces with plant control system.	Loss P.	
12	Check Proper Installation of Suction Strainer.	ok	
13	Refer To "SUPPLIER RECOMMENDED COMMISSIONING CHECK LIST" (If it is Available) for Further Recommended Commissioining Activities By Package Supplier.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Kareem Abdallah / elsalky	Mohammed Abdel Sadek
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	[signature]
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

COMMISSIONING CHECK LIST
JOCKEY PUMPS
ME-07 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)		
PROJECT NUMBER	: 1251-100		
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network		
COMMODITY ID	: 030-LP-010	**DISCIPLINE**	: Mechanical
REF. DWGs/DOCs	: 030-P-16A B		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Ensure That the Pre-Commissioining Check List is Completed.	ok	
2	Check free rotation for pump, motor (and all other auxiliaries).	ok	
3	Check motor / pump alignment per manufacturer instructions.	ok	
4	Check greasing of electric motor with supplier recommended type of lubricants (as per Manufacturer instruction manual).	ok	
5	Check pump's motor (and other auxiliary motors) direction of rotation (Motor Solo Run) while measuring electric motor phases currents measurements.	ok	
6	Check greasing of all auxiliary motor with supplier recommended type of lubricants (as per Manufacturer instruction manual).	ok	
7	Proper operation of constant level oiler and level glasses, venting all top point, drain valve at lowest points, lube oil filter ... etc. (as applicable)	ok	
8	Properly clean suction piping, install suction strainer, make sure that all main & auxiliary piping connections are blinded throughout fabrication, pre-commissioning ... etc. up to clean and dry status of process	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Name Attiah / elsalhy	Mohamed Abdelkaden
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	[signature]
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

COMMISSIONING CHECK LIST
JOCKEY PUMPS
ME-07 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Mechanical
REF. DWGs/DOCs	: 030-P-16A B

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
9	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	ok	
10	Check All Instrument Function Checks are Completed.	loss P.	
11	Functionally check all interfaces with plant control system.	loss P.	
12	Check Proper Installation of Suction Strainer.	ok	
13	Refer To "SUPPLIER RECOMMENDED COMMISSIONING CHECK LIST" (If it is Available) for Further Recommended Commissioining Activities By Package Supplier.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Paterson MESC	PPC
NAME		Kareem Atteih / elsalhy	Mohammed Abdel Sadek
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	M. A. Sadek
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)		
PROJECT NUMBER	: 1251-100		
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network		
COMMODITY ID	: 030-LP-010	**DISCIPLINE**	: Mechanical
REF. DWGs/DOCs	: 030-P-15 B		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check The Signed Copy of The Pre-Commissioning form of the Commodity	OK	
2	Check free rotation for pump, motor (and all other auxiliaries).	OK	
3	Check Driver / pump alignment per manufacturer instructions.	NA	
4	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	OK	
5	Check certifications of all instruments and devices and decide which items to be calibrated after the rough visual calibration.	E&I	
6	Refer To "SUPPLIER RECOMMENDED COMMISSIONING CHECK LIST" (If it is Available) for Further Recommended Commissioining Activities By Package Supplier.	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI / Patterson MESC	PPC
NAME		Nancer Abdul / elsalhy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature] / [signature] 24/6/2021	M. A. Sadek
DATE		24/6/2021 / 24/6/2021	24/06/2021

Enppi

COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 B

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100		
COMMODITY DESCRIPTION	: 30-P-15C		
COMMODITY ID	: 30-P-15C	**DISCIPLINE**	: Mechanical
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check The Signed Copy of The Pre-Commissioning form of the Commodity	ok	
2	Check free rotation for pump, motor (and all other auxiliaries).	ok	
3	Check Driver / pump alignment per manufacturer instructions.	NA	
4	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	ok	
5	Check certifications of all instruments and devices and decide which items to be calibrated after the rough visual calibration.	E&I	
6	Refer To "SUPPLIER RECOMMENDED COMMISSIONING CHECK LIST" (If it is Available) for Further Recommended Commissioining Activities By Package Supplier.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	Patterson MESC	PPC
NAME		Hareem Abdallah	elsalhy	Mohamed Abdel Sadek
SIGNATURE	[signature]	[signature]	[signature] 13/7/2021	M. A. Sadek
DATE		13/7/2021	13/7/2021	13/7/2021

10000-000-EK8-TMP-0140 (07/14)

Enppi

COMMISSIONING CHECK LIST
MAIN FIRE DIESEL PUMPS
ME-05 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Mechanical
REF. DWGs/DOCs	: 030-P-15 A

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Check The Signed Copy of The Pre-Commissioning form of the Commodity	ok	
2	Check free rotation for pump, motor (and all other auxiliaries).	ok	
3	Check Driver / pump alignment per manufacturer instructions.	NA	
4	Piping alignment with/without flanges tightening (change shall be less than 0.05 mm in axial or radial readings).	ok	
5	Check certifications of all instruments and devices and decide which items to be calibrated after the rough visual calibration.	E&I	
6	Refer To "SUPPLIER RECOMMENDED COMMISSIONING CHECK LIST" (If it is Available) for Further Recommended Commissioining Activities By Package Supplier.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	Patterson MESC	PPC
NAME		Kareem Attalla	elsalhy	Mohamed Abdul Sadek
SIGNATURE	[signature]	[signature]	[signature] 24/6/2021	[signature]
DATE		24/6/2021	24/6/2021	24/06/2021

Enppi

COMMISSIONING CHECK LIST
FIXED ROOF TANKS
PV-04 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 **DISCIPLINE** : Pressure vessel
REF. DWGs/DOCs	: 030-T-10

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Ensure Pre-commissioning check list completed and Mechanical completion certificate is signed.	OK	
2	Ensure that all punch list items category B are cleared.	OK	
3	Ensure that all spectacle blinds are in correct position.	OK	
4	Ensure Man way(s) and clean out door are closed out with correct gaskets and bolting.	OK	
5	Ensure that all utilities related to the tank are fully commissioned and in service.	OK	
6	Ensure that Tank is purged by Nitrogen (if needed).	N/A	
7	Ensure that function checks for Instruments and valves are completed.	OK	
8	Ensure that Firefighting system are fully commissioned and in service.	OK	
9	Ensure that Fire and Gas system are fully commissioned and in service.	OK	
10	Ensure that tank area is clean and safe for feed stock introduction.	OK	
11	Ensure lighting system are successfully commissioned and in service.	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mahmoud Helmy	Abdallah Fathy	M.Youssef
SIGNATURE	[signature]	[signature]	[signature]
DATE	21/6/2021		

Enppi

COMMISSIONING CHECK LIST
FIXED ROOF TANKS
PV-04 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Pressure vessel
REF. DWGs/DOCs	: 030-T-10

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Ensure that motor's mixer (if – any) is commissioned and ready for operation.	N/A	
13	Ensure cathodic protection system is successfully commissioned and in service	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mahmoud Helmy	Abdallah Fathy	M.Youssef
SIGNATURE	[signature]	[signature]	[signature]
DATE	21/6/2021		

Enppi

COMMISSIONING CHECK LIST
VESSEL
PV-06 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Pressure vessel
REF. DWGs/DOCs	: 030-T-11A

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Ensure Pre-commissioning check list completed and Mechanical completion certificate is signed.	OK	
2	Ensure that all punch list items category B are cleared.	OK	
3	Ensure that all spectacle blinds are in correct position.	N/A	
4	Ensure Man Hole is closed out with correct gaskets and bolting.	N/A	
5	Ensure that all utilities related to the vessel are fully commissioned and in service.	OK	
6	Ensure that GLT and CLT are completed.	N/A	
7	Ensure that the Oxygen content is less than 3% and vessel is kept under Nitrogen positive pressure.	N/A	
8	Ensure that function checks for Instruments and valves are completed.	OK	
9	Ensure that Firefighting system are fully commissioned and in service.	OK	
10	Ensure that Fire and Gas system are fully commissioned and in service.	OK	
11	Ensure that Vessel area is clean and safe for feed stock introduction.	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mahmoud Helmy	Abdallah Fathy	M.Youssef
SIGNATURE	[signature]	[signature]	[signature]
DATE	21/6/2021		

Enppi

COMMISSIONING CHECK LIST
VESSEL
PV-06 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Pressure vessel
REF. DWGs/DOCs	: 030-T-11 A

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Ensure lighting system are successfully commissioned and in service.	N/A	
13	Ensure cathodic protection system is successfully commissioned and in service.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mahmoud Helmy	Abdallah Fathy	M.Youssef
SIGNATURE	[signature]	[signature]	[signature]
DATE	21/6/2021		

Enppi

COMMISSIONING CHECK LIST
VESSEL
PV-06 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Pressure vessel
REF. DWGs/DOCs	: 030-T-11 B

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Ensure Pre-commissioning check list completed and Mechanical completion certificate is signed.	OK	
2	Ensure that all punch list items category B are cleared.	OK	
3	Ensure that all spectacle blinds are in correct position.	N/A	
4	Ensure Man Hole is closed out with correct gaskets and bolting.	N/A	
5	Ensure that all utilities related to the vessel are fully commissioned and in service.	OK	
6	Ensure that GLT and CLT are completed.	N/A	
7	Ensure that the Oxygen content is less than 3% and vessel is kept under Nitrogen positive pressure.	N/A	
8	Ensure that function checks for Instruments and valves are completed.	OK	
9	Ensure that Firefighting system are fully commissioned and in service.	OK	
10	Ensure that Fire and Gas system are fully commissioned and in service.	OK	
11	Ensure that Vessel area is clean and safe for feed stock introduction.	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mahmoud Helmy	Abdallah Fathy	M.Youssef
SIGNATURE	[signature]	[signature]	[signature]
DATE	21/6/2021		

Enppi

COMMISSIONING CHECK LIST
VESSEL
PV-06 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Pressure vessel
REF. DWGs/DOCs	: 030-T-11 B

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Ensure lighting system are successfully commissioned and in service.	N/A	
13	Ensure cathodic protection system is successfully commissioned and in service.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mahmoud Helmy	Abdallah Fathy	M.Youssef
SIGNATURE	[signature]	[signature]	[signature]
DATE	21/6/2021		

Enppi

COMMISSIONING CHECK LIST
VESSEL
PV-06 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Pressure vessel
REF. DWGs/DOCs	: 030-T-11 C

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Ensure Pre-commissioning check list completed and Mechanical completion certificate is signed.	OK	
2	Ensure that all punch list items category B are cleared.	OK	
3	Ensure that all spectacle blinds are in correct position.	N/A	
4	Ensure Man Hole is closed out with correct gaskets and bolting.	N/A	
5	Ensure that all utilities related to the vessel are fully commissioned and in service.	OK	
6	Ensure that GLT and CLT are completed.	N/A	
7	Ensure that the Oxygen content is less than 3% and vessel is kept under Nitrogen positive pressure.	N/A	
8	Ensure that function checks for Instruments and valves are completed.	OK	
9	Ensure that Firefighting system are fully commissioned and in service.	OK	
10	Ensure that Fire and Gas system are fully commissioned and in service.	OK	
11	Ensure that Vessel area is clean and safe for feed stock introduction.	OK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mahmoud Helmy	Abdallah Fathy	M.Youssef
SIGNATURE	[signature]	[signature]	[signature]
DATE	21/6/2021		

Enppi

COMMISSIONING CHECK LIST
VESSEL
PV-06 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 **DISCIPLINE** : Pressure vessel
REF. DWGs/DOCs	: 030-T-11 C

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Ensure lighting system are successfully commissioned and in service.	N/A	
13	Ensure cathodic protection system is successfully commissioned and in service.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	Mahmoud Helmy	Abdallah Fathy	M.Youssef
SIGNATURE	[signature]	[signature]	[signature]
DATE	21/6/2021		

SITE ACCEPTANCE TEST FOR CUMMINS ENGINE DRIVEN PUMPS AND FIRETROL FTA1100 CONTROLLERS

Project : **CRUDE OIL TANK FARM**

Contractor : **ENPPI**

P/O No : **1251-100-131-06-5**

Patterson Ref : **EGQ-7414**

Pump Tag No : **030-P-15 B**

Patterson	Contractor	Owner
Mohamed abdAllah	A. Attallah	Mohamed Omar Mohamed Abdul Sadek
Position	**Position**	**Position**
service engineer	Machining Eng.	I. engineer Senior engineer
Date	**Date**	**Date**
24/6/2021	24/6/2021	24/6/2021 24/6/2021

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: 23/APRIL/19	Sheet 2 of 8	

The purpose of this procedure is to ensure correct operation of the pump at site and to gather all the necessary data required to plot the site performance curve.

This procedure is divided into three sections. The first is a system check whereby the fire pump skid and all related components are checked for correct installation and functionality. The second is the flow test, whereby the pump and engine performance are determined. The third is the controller logic test, whereby the control logic and alarms are verified.

SYSTEM CHECK

The system check is further divided into three categories: Pre-start up, start up and shut down. The purpose of these checks is to isolate and correct any potential problems in order to assure trouble free operation.

Pump Data	
Pump Model	12x8 MMA
Pump Serial No	FP-C000188136-01-05
Rated Capacity	800 m³/hr
Rated Head	96 m
Rated RPM	1760
Diameter of pipe at suction gauge	16"
Height from pump centerline to suction gauge centerline	
Diameter of pipe at discharge gauge	12"
Height from pump centerline to discharge gauge centerline	
Static pressure (suction gauge pressure before pump run)	0.1 bar.g.

Engine Data	
Manufacturer	Cummins
Model	CFP15E-F10
Serial No	80256489
Rated Power	343 Kw @ 25°c
Rated RPM	1760
Volts	220 V
Site Elevation	
Ambient Temperature	+50°C

Controller Data	
Manufacturer	Firetrol
Model	FTA 1100
Serial No.	FE1107738
Enclosure rating	NEMA 4X

M. A. Sadek

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

PRE-STARTUP CHECK LIST

Pump:

Check the alignment between the pump and driver.

- If coupling is used, ensure alignment tolerance is within 0.1mm, parallel and angular.
- If driveshaft is used, ensure DBSE between hub flanges is equal at 0°, 90°, 180° and 270°. Tolerance is 0.5 mm.

Verify that the valves on the seal water piping are open.

Verify that the pump suction valve is open and that the suction gauge shows positive pressure.

Verify that a few drops of water per second are leaking from each stuffing box.

Verify that the Air Release Valve (ARV) on the pump is not blocked by opening the by-pass air vent valve on the seal water piping and verifying that water is present.

Engine & Fuel Tank:

Check fuel tank cleanliness before fuel filling.

Check the level gauge of the fuel tank and verify that there is fuel.

Verify that the fuel supply valve is open.

Verify that the air filter is not blocked.

Verify that the oil level is correct.

Verify that the coolant level is correct. Do not open the cap if the engine is hot!!!

Verify that the selector switch on the diesel engine gauge board is turned to AUTO.

Verify that the cooling loop ball valves are in open position and that the bypass is closed.

Verify that batteries are connected to the engine properly and that their electrolyte level is correct.

Record the hours on the engine's run hour meter: 9.15 hrs

Controller:

Check the electrical supply to the controller.

Verify that the main switch (Manual-OFF-Auto) is in the OFF position.

Verify that all circuit breakers inside the controller are in the ON position.

Verify that the interconnecting wiring between the engine and controller is installed correctly (terminal nos. 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 301, 302, 303, 304, 310, 311, 312)

Adjust the pressure set points and delay timers:

Start Pressure: 8.5 barg Stop Pressure: 10 barg On Delay Timer: 15 s

Record voltage across each battery: Batt#1: 24.5 VDC Batt#2: 24.5 VDC

Check charging voltage on controller display.

Check the pressure sensing line for any leaks.

M. A. Saeleh

<table>
<tr><td rowspan="2">PATTERSON PUMP COMPANY LTD</td><td colspan="3">SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS</td><td rowspan="2">SAT-101A-0</td></tr>
<tr><td>ISSUED BY:
ALG</td><td>DATE:
/ /</td><td></td></tr>
</table>

STARTUP CHECK LIST

Controller:

Set the selector switch to MANUAL.

Crank the engine form BATTERY #1 CRANK pushbutton until the engine runs. (See below for alternative starting methods).

Engine:

Check that there are no leaks around the engine.

Check the oil pressure gauge and verify that oil pressure is between 40-50 psi.

Check the temperature gauge and verify that the temperature gauge does not exceed 95°C.

Verify that the engine cooling loop discharge is discharging water.

Check exhaust gases and make sure there is no heavy smoke being emitted.

Verify that the engine is running at rated speed.

Pump:

Verify that a few drops of water per second to a small stream is leaking from each stuffing box.

Check the pump bearing and packing gland temperature. They should not exceed 85 ^{0}C.

SHUT DOWN CHECK LIST

Controller:

Shut down the unit by turning the mode selector switch to the OFF position.

Engine:

Verify that all the engine gauges go to “zero” except for the engine temperature gauge.

Verify that there is no more water flow at the cooling loop discharge.

Pump:

Verify that a few drops of water per second are leaking from each stuffing box.

ALTERNATIVE START CHECK LIST

Set the selector switch to MANUAL and crank using BATTERY #2 CRANK pushbutton.

Set the engine’s selector switch to MANUAL and pull Manual Contactor #1.

Set the engine’s selector switch to MANUAL and pull Manual Contactor #2.

Set the selector switch to AUTO and drop system pressure (press TEST pushbutton).

Set the selector switch to AUTO and crank the engine from the control room or place a jumper between terminals 13 and 14.

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

FLOW TEST PROCEDURE

Verify that the main valves to the system are closed.

Verify that the test line valves are open. Use the valve downstream from the flow meter as the throttling valve and start flow test with this valve closed.

Verify that all by-pass valves, minimum flow lines, and relief valves are closed (except for casing relief valves, if applicable).

PUMP FLOW TEST

	% Flow	Time (hh:mm)	Suction Pressure (PSI / BAR)	Discharge Pressure (PSI / BAR)	Flow (GPM / m³/h)	Pump Speed (RPM)
1	0%	10:40	0.5	12.3	0	1840
2	50%	10:44	0.4	11.4	2500	1840
3	80%	10:48	0.35	10.8	3000	1840
4	100%	10:51	0.3	10.2	3500	1840
5	130%	10:55	0.25	8.7	4500	1840
6	150%	10:57	0.15	7.2	5250	1840

ENGINE LOG

	Engine Speed (RPM)	Coolant Temp. (°C)	Oil Pres. (PSI/kPa)	Cooling Water Pres. (PSI/BAR)	Raw Water Inlet Temp (°C)	Raw Water Outlet Temp (°C)	Other
1	1840	36	38	18	36	32	
2	1840	83	36	12	36	32	
3	1840	83	36	17	32	42	
4	1840	84	36	16.8	32	42	
5	1840	84	36	15	32	44	
6	1840	85	37	13	32	45	

PUMP BEARING & GLAND TEMPERATURES (85°C MAX or Ambient +39°C)

	DE BEARING	DE GLAND	NDE BEARING	NDE GLAND
1	31.3	32.6	33.5	33.4
2	34	34.6	35	36.4
3	37.8	35.5	36.3	38
4	36	35.5	36.8	39.2
5	40.1	35.4	38.4	38.8
6	[illegible]	[illegible]	39	38.2

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

SPECIAL TESTS

Use calibrated test instruments. Not provided by Patterson.

PUMP VIBRATION READINGS ON BEARINGS (10 mm/s RMS MAX)					
% Flow	DE Vertical	DE Horizontal	NDE Vertical	NDE Horizontal	NDE Axial
100%	6.8	8.1	5.9	7.1	6.7

PRESSURE RELIEF VALVE (PRV) ADJUSTMENT

The purpose of the PRV is to protect the system piping from over-pressurization in case of engine over-speed. The PRV should be set to open just above the pump's shut-off pressure.

Close valves on discharge line and test line (shutoff) and run the pump at rated speed.

Open the PRV by turning the adjustment screw of its regulating valve counter clockwise. Use the sight glass on the waste cone (downstream of the relief valve) to check for flow.

Once flow is visible, close the PRV slowly until the flow stops.

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: 23/APRIL/19	Sheet 8 of 9	

CONTROLLER LOGIC CHECKS AND LOCAL ALARMS

Push Buttons & Switches:

- ☐ Manual-OFF-Auto selector switch
- ☐ Crank on Battery #1 push button
- ☐ Crank on Battery #2 push button
- ☐ Stop/Reset push button
- ☐ Test push button *(selector switch must be set to AUTO)*

Alarm Signals on MARK III interface:

- ☐ AC Power Available *(set circuit breaker 1CB to ON)*
- ☐ Alarm *(will be activated automatically with any alarm)*
- ☐ Main Switch in Auto *(set selector switch to AUTO)*
- ☐ Main Switch in Manual *(set selector switch to MANUAL)*
- ☐ System Pressure Low *(drain pressure sensing line or press TEST pushbutton)*
- ☐ Engine Running *(start engine)*
- ☐ Engine Failed to Start *(disconnect terminals 9 and 10. Set selector switch to AUTO. Drop system pressure or press TEST pushbutton. Wait 3 minutes for alarm & time delay where applicable)*
- ☐ Engine Temp High *(place jumper between terminals 5 and 11)*
- ☐ Engine Oil Pressure Low *(place jumper between terminals 4 and 11 while engine is running)*
- ☐ Engine Overspeed *(activate overspeed alarm from engine panel)*
- ☐ Engine Alternate ECM *(press the ALTERNATE ECM pushbutton on the engine panel)*
- ☐ Engine Fuel Injector Malfunction *(place jumper between terminals 11 and 302)*
- ☐ Low Fuel Level *(place jumper between terminals 59 and 60)*
- ☐ Automatic Shutdown Disabled *(activate from the Mark II display board)*
- ☐ Charger Malfunction *(set circuit breaker CB 1 & 2 to OFF)*
- ☐ Battery #1 Trouble *(set circuit breaker CB 3 to OFF)*
- ☐ Battery #2 Trouble *(set circuit breaker CB 4 to OFF)*

Remote Signals:

- ☐ Remote Start *(place jumper between terminals 13 and 14)*
- ☐ Weekly test due
- ☐ Controller on manual/Auto
- ☐ Low fuel level
- ☐ Common trouble
- ☐ Engine running
- ☐ Engine failed to start

Other Features:

- ☐ Space Heater (adjust humidistat and check for heat being emitted by hand. Do not touch heater!!!)

W. A. Sadek

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

NOTES

* sequence test has been successfully performed for the fire fighting pumps of the following tags 030-P-15 A/B & 030-P-16 A/B.
* sensing, fuel & vent air flow meter to be painted. (PTJ)
* fuel line leakage to be fixed. (PTJ)
* strainer fine mesh was removed as per MESC/patterson advice & instru[illegible]
* Nameplates to be installed
* House keeping to be performed for pump & area (PTJ)
* Engine fuel Tank level sensor to be installed properly (PTJ)
* Engine [illegible] oil and Coolant to be refuled later By MESC / Patterson.

Panch closed 24/11/2021
oil change by patterson
24/11/2021
24/11/2021
M.A. Sadek

Patterson

Mohamed Abdallah

service engineer

24/6/2021

PPC

Mohamed Abdul Sadek
senior engineer

M.A. Sadek
24/06/2021

SITE ACCEPTANCE TEST FOR CUMMINS ENGINE DRIVEN PUMPS AND FIRETROL FTA1100 CONTROLLERS

Project : CRUDE OIL TANK FARM

Contractor : ENPPI

P/O No : 1251-100-131-06-5

Patterson Ref : EGQ-7414

Pump Tag No : 030-P-15 C

Patterson	Contractor	Owner
PMESC Aymanelsalhy	Haytham Afr	Mohamed Abdul Saddl... M.A. Saeed
Position	Position	Position
service Manager	Mech. engineer	Operation Manag
Date	Date	Date
13/7/2021 13/7/2021	13/7/2021	13/7/2021

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: 23/APRIL/19	Sheet 2 of 8	

The purpose of this procedure is to ensure correct operation of the pump at site and to gather all the necessary data required to plot the site performance curve.

This procedure is divided into three sections. The first is a system check whereby the fire pump skid and all related components are checked for correct installation and functionality. The second is the flow test, whereby the pump and engine performance are determined. The third is the controller logic test, whereby the control logic and alarms are verified.

SYSTEM CHECK

The system check is further divided into three categories: Pre-start up, start up and shut down. The purpose of these checks is to isolate and correct any potential problems in order to assure trouble free operation.

Pump Data	
Pump Model	12X8 MAA
Pump Serial No	FP-C000188136-01-06
Rated Capacity	3500 GPM
Rated Head	138 PSI
Rated RPM	1760
Diameter of pipe at suction gauge	16"
Height from pump centerline to suction gauge centerline	Zero
Diameter of pipe at discharge gauge	12"
Height from pump centerline to discharge gauge centerline	Zero
Static pressure (suction gauge pressure before pump run)	

Engine Data	
Manufacturer	Cummins
Model	CFP-15E-F10
Serial No	80256490
Rated Power	460 HP
Rated RPM	1760
Volts	220
Site Elevation	Zero
Ambient Temperature	4

Controller Data	
Manufacturer	FirefRoL
Model	FTA 1100
Serial No.	FZ1107730
Enclosure rating	

M. A. Saeed [signature]

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

PRE-STARTUP CHECK LIST

Pump:

Check the alignment between the pump and driver.

- If coupling is used, ensure alignment tolerance is within 0.1mm, parallel and angular.
- If driveshaft is used, ensure DBSE between hub flanges is equal at 0°, 90°, 180° and 270°. Tolerance is 0.5 mm.

Verify that the valves on the seal water piping are open.

Verify that the pump suction valve is open and that the suction gauge shows positive pressure.

Verify that a few drops of water per second are leaking from each stuffing box.

Verify that the Air Release Valve (ARV) on the pump is not blocked by opening the by-pass air vent valve on the seal water piping and verifying that water is present.

Engine & Fuel Tank:

Check fuel tank cleanliness before fuel filling.

Check the level gauge of the fuel tank and verify that there is fuel.

Verify that the fuel supply valve is open.

Verify that the air filter is not blocked.

Verify that the oil level is correct.

Verify that the coolant level is correct. Do not open the cap if the engine is hot!!!

Verify that the selector switch on the diesel engine gauge board is turned to AUTO.

Verify that the cooling loop ball valves are in open position and that the bypass is closed.

Verify that batteries are connected to the engine properly and that their electrolyte level is correct.

Record the hours on the engine's run hour meter: 5.28 hrs

Controller:

Check the electrical supply to the controller.

Verify that the main switch (Manual-OFF-Auto) is in the OFF position.

Verify that all circuit breakers inside the controller are in the ON position.

Verify that the interconnecting wiring between the engine and controller is installed correctly (terminal nos. 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 301, 302, 303, 304, 310, 311, 312)

Adjust the pressure set points and delay timers:

Start Pressure: 8 Stop Pressure: N.A On Delay Timer: 15 Sec

Record voltage across each battery: Batt#1: 25 VDC Batt#2: 24.9 VDC

Check charging voltage on controller display.

Check the pressure sensing line for any leaks.

[signature]

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

STARTUP CHECK LIST

Controller:

Set the selector switch to MANUAL.

Crank the engine form BATTERY #1 CRANK pushbutton until the engine runs. (See below for alternative starting methods).

Engine:

Check that there are no leaks around the engine.

Check the oil pressure gauge and verify that oil pressure is between 40-50 psi.

Check the temperature gauge and verify that the temperature gauge does not exceed 95°C.

Verify that the engine cooling loop discharge is discharging water.

Check exhaust gases and make sure there is no heavy smoke being emitted.

Verify that the engine is running at rated speed.

Pump:

Verify that a few drops of water per second to a small stream is leaking from each stuffing box.

Check the pump bearing and packing gland temperature. They should not exceed 85 ^{0}C.

SHUT DOWN CHECK LIST

Controller:

Shut down the unit by turning the mode selector switch to the OFF position.

Engine:

Verify that all the engine gauges go to “zero” except for the engine temperature gauge.

Verify that there is no more water flow at the cooling loop discharge.

Pump:

Verify that a few drops of water per second are leaking from each stuffing box.

ALTERNATIVE START CHECK LIST

Set the selector switch to MANUAL and crank using BATTERY #2 CRANK pushbutton.

Set the engine’s selector switch to MANUAL and pull Manual Contactor #1.

Set the engine’s selector switch to MANUAL and pull Manual Contactor #2.

Set the selector switch to AUTO and drop system pressure (press TEST pushbutton).

Set the selector switch to AUTO and crank the engine from the control room or place a jumper between terminals 13 and 14.

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

FLOW TEST PROCEDURE

Verify that the main valves to the system are closed.

Verify that the test line valves are open. Use the valve downstream from the flow meter as the throttling valve and start flow test with this valve closed.

Verify that all by-pass valves, minimum flow lines, and relief valves are closed (except for casing relief valves, if applicable).

PUMP FLOW TEST

	% Flow	Time (hh:mm)	Suction Pressure (PSI / BAR)	Discharge Pressure (PSI / BAR)	Flow (GPM / m³/h)	Pump Speed (RPM)
1	0%	2:50	0.3	11.6	0	1798
2	~~50%~~ 70%	3:00	0.2	10.5	2500	1800
3	~~80%~~ 85%	3:02	0.2	10.2	3000	1810
4	100%	3:05	0.15	9.6	3500	1800
5	130%	3:11	0.1	8.1	4550	1800
6	150%	3:14	0	6.7	5250	1810

ENGINE LOG

	Engine Speed (RPM)	Coolant Temp. (°C)	Oil Pres. (PSI/kPa)	Cooling Water Pres. (PSI/BAR)	Raw Water Inlet Temp (°C)	Raw Water Outlet Temp (°C)	Other
1	1798	73	36	14	30	42	
2	1800	83	36	12	31.3	46	
3	1810	83	37	10	33.2	50	
4	1800	83	38	10	32.4	53	
5	1800	84	38	6	32.9	56	
6	1810	85	38	2	33.5	62	

PUMP BEARING & GLAND TEMPERATURES (85°C MAX or Ambient +39°C)

	DE BEARING	DE GLAND	NDE BEARING	NDE GLAND
1	40.6	36	36.5	35
2	43.9	39.6	38	37.6
3	44.5	38.6	38.5	38.7
4	45.3	38.4	39	37.8
5	46.5	39.1	39.8	37.5
6	[illegible]	[illegible]	[illegible]	[illegible]

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

SPECIAL TESTS

Use calibrated test instruments. Not provided by Patterson.

PUMP VIBRATION READINGS ON BEARINGS (10 mm/s RMS MAX)					
% Flow	DE Vertical	DE Horizontal	NDE Vertical	NDE Horizontal	NDE Axial
100%	6.7	6.5	4.4	4.4	7

PRESSURE RELIEF VALVE (PRV) ADJUSTMENT

The purpose of the PRV is to protect the system piping from over-pressurization in case of engine over-speed. The PRV should be set to open just above the pump's shut-off pressure.

Close valves on discharge line and test line (shutoff) and run the pump at rated speed.

Open the PRV by turning the adjustment screw of its regulating valve counter clockwise. Use the sight glass on the waste cone (downstream of the relief valve) to check for flow.

Once flow is visible, close the PRV slowly until the flow stops.

M. A. Sadek

CONTROLLER LOGIC CHECKS AND LOCAL ALARMS

Push Buttons & Switches:

- ❑ Manual-OFF-Auto selector switch
- ❑ Crank on Battery #1 push button
- ❑ Crank on Battery #2 push button
- ❑ Stop/Reset push button
- ❑ Test push button *(selector switch must be set to AUTO)*

Alarm Signals on MARK III interface:

- ❑ AC Power Available *(set circuit breaker 1CB to ON)*
- ❑ Alarm *(will be activated automatically with any alarm)*
- ❑ Main Switch in Auto *(set selector switch to AUTO)*
- ❑ Main Switch in Manual *(set selector switch to MANUAL)*
- ❑ System Pressure Low *(drain pressure sensing line or press TEST pushbutton)*
- ❑ Engine Running *(start engine)*
- ❑ Engine Failed to Start *(disconnect terminals 9 and 10. Set selector switch to AUTO. Drop system pressure or press TEST pushbutton. Wait 3 minutes for alarm & time delay where applicable)*
- ❑ Engine Temp High *(place jumper between terminals 5 and 11)*
- ❑ Engine Oil Pressure Low *(place jumper between terminals 4 and 11 while engine is running)*
- ❑ Engine Overspeed *(activate overspeed alarm from engine panel)*
- ❑ Engine Alternate ECM *(press the ALTERNATE ECM pushbutton on the engine panel)*
- ❑ Engine Fuel Injector Malfunction *(place jumper between terminals 11 and 302)*
- ❑ Low Fuel Level *(place jumper between terminals 59 and 60)*
- ❑ Automatic Shutdown Disabled *(activate from the Mark II display board)*
- ❑ Charger Malfunction *(set circuit breaker CB 1 & 2 to OFF)*
- ❑ Battery #1 Trouble *(set circuit breaker CB 3 to OFF)*
- ❑ Battery #2 Trouble *(set circuit breaker CB 4 to OFF)*

Remote Signals:

- ❑ Remote Start *(place jumper between terminals 13 and 14)*
- ❑ Weekly test due
- ❑ Controller on manual/Auto
- ❑ Low fuel level
- ❑ Common trouble
- ❑ Engine running
- ❑ Engine failed to start

Other Features:

- ❑ Space Heater (adjust humidistat and check for heat being emitted by hand. Do not touch heater!!!)

M. A. Saleh

PATTERSON PUMP COMPANY LTD	SAT FOR CUMMINS ENGINE DRIVEN PUMPS AND FTA1100 CONTROLLERS			SAT-101A-0
	ISSUED BY: ALG	DATE: / /		

NOTES

* House keeping for pump Area to be performed (by petrojet)
* strainer Fine Mesh was removed as per Mesc / Paterson advise
* Alarm signal had been tested
* All Fault Alarm (low fuel level shall be removed after filling fuel)
* Ac fault shall be removed after connecting permanant power supply & Also battery charger fault (cleared) — 23/11/2021
* Lubricant & engine coolant to be changed later by Mesc / paterson — 23/11/2021 (Punch closed in 24/11/2021, oil change in 24/11/2021 by Peterson)
* Sensing line, fuel line & venturi flow meter to be painted by Petrojet & Also final touch up on pump & piping system to be performed.

M. A. Sealla

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

9.05- Mechanical Supplier Check Lists & Reports

10- Instrumentation Pre-Commissioning

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.01- System Instrument Index

030-LP-010	Firefighting Pumps & Fire Water Network	Electrical	P-030-P-15A	LV Cable	Checklist	EL-31 A
030-LP-010	Firefighting Pumps & Fire Water Network	Electrical	P-030-P-15B	LV Cable	Checklist	EL-31 A
030-LP-010	Firefighting Pumps & Fire Water Network	Electrical	P-030-P-15C	LV Cable	Checklist	EL-31 A
030-LP-010	Firefighting Pumps & Fire Water Network	Electrical	P-030-P-16A	LV Cable	Checklist	EL-31 A
030-LP-010	Firefighting Pumps & Fire Water Network	Electrical	P-030-P-16B	LV Cable	Checklist	EL-31 A
030-LP-010	Firefighting Pumps & Fire Water Network	Loss Prevention	030-P-15A	Signals Cables	Checklist	LP-11A
030-LP-010	Firefighting Pumps & Fire Water Network	Loss Prevention	030-P-15B	Signals Cables	Checklist	LP-11A
030-LP-010	Firefighting Pumps & Fire Water Network	Loss Prevention	030-P-15C	Signals Cables	Checklist	LP-11A
030-LP-010	Firefighting Pumps & Fire Water Network	Loss Prevention	030-P-16A	Signals Cables	Checklist	LP-11A
030-LP-010	Firefighting Pumps & Fire Water Network	Loss Prevention	030-P-16B	Signals Cables	Checklist	LP-11A
030-LP-010	Firefighting Pumps & Fire Water Network	Instrumentation	030-PG-030	Field Gauge	Checklist	IC-09 A
030-LP-010	Firefighting Pumps & Fire Water Network	Instrumentation	030-PG-031	Field Gauge	Checklist	IC-09 A
030-LP-010	Firefighting Pumps & Fire Water Network	Instrumentation	030-PG-032	Field Gauge	Checklist	IC-09 A
030-LP-010	Firefighting Pumps & Fire Water Network	Instrumentation	030-PG-034	Field Gauge	Checklist	IC-09 A
030-LP-010	Firefighting Pumps & Fire Water Network	Instrumentation	IC-030LIT030	Instrument Cables Single Pair	Checklist	IC-22 A
030-LP-010	Firefighting Pumps & Fire Water Network	Instrumentation	030-LIT-030	Transmitter	Checklist	IC-05 A

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.02- Instrument Data Sheets

Enppi EGPC OIL TANK FARM	PRESSURE GAUGE					Spec. No.
	No.	By	Chk	Appr	Date	Description	01251-100-JSS-030-212-01
	2	M.A.S	E.E.E	M.E.A	3/10/2020	ISSUED FOR PURCHASE	Sheet No.
							97 of 163
							MRQ/MRP01251-100-212-01-P
							Contract: 01251-100
							Rev.: 2 SPI Form No.:21201

Section	No.	Item			Value		
General Data	1	Tag Number			030-PG -034		
	2	Service			Reg. Valve DOWNSTREAM		
	3	PID No.	Nace Applicable		01251-100-030-KKE-031		
	4	Line Number	Equipment Number		10"-FW-030-007-A3		
	5	Line Size	Piping Class				
	6	Line Material	Line Schedule				
	7	Ingress Protection			IP 65		
Operating Conditions	8	Fluid	Special Conditions		Fresh Water		
	9	State			Liquid		
	10	Operating Pressure	Operating Temperature		9.5 bar-g	45 °C	
	11	Design Press. : Min.	Max.	Unit		16	bar-g
	12	Design Temp. : Min.	Max.	Unit	1	80	°C
	13						
	14						
Pressure Gauge	15	Type			Direct Reading		
	16	Instrum. Range : Min.	Max.	Unit	0	16	bar-g
	17	Dial Size	Dial Color		160 mm	Black Labels - White Background	
	18	Mounting			Local		
	19	Case	Material		Hermetically Sealed	SS 316TI	
	20	Oil Filling	Blow-Out Protection		Glycerine	Back	
	21	Lens Material			Shatterproof Laminated Safety Glass		
	22	Ring Construction	Material		Bayonet ring	316 Stainless Steel	
	23	Element : Type	Material		Bourdon	316L	
	24	Movement Material			SS 316L		
	25	Socket Material			316L		
	26	Connection : Size	Material		1/2" NPT	316 SS	
	27	Pointer Adjustment			External Zero Adjustment		
	28	Accuracy	Overpressure		+/- 1% of Full Scale	1.3 Of Maximum Scale	
	29	Process Connection Type	Material		Screwed	316 Stainless Steel	
	30	Process Connection : Size	Rating	Face	1/2" NPTM		
	31	Overpressure Protector			Overpressure safe: 2xFull Scale & Vacuum down to minus 1 bar		
Diaphragm Seal	32	Seal Type	Extension Length				
	33	Size	Rating	Face			
	34	Upper Housing Material					
	35	Lower Housing Material					
	36	Diaphragm Material					
	37	Fill Fluid	Fill Fluid Density				
	38	Capillary Material					
	39	Capillary Type	Capillary Length				
	40	Flushing Ring					
	41	Gasket / O-Ring Material					
	42						
	43						
Options	44	Siphon Type	Material		No		
	45	Movment Dampener	Material		No		
	46	Pressure Snubber	Material		No		
	47	Pressure Limit Valve	Material		No		
	48	Manifold	Model	Material	2-Way	IV 20	316 SS
Purchase	49	Manufacturer			WIKA		
	50	Model No.			233.30		
	51	Weight					

Notes:
1- Corrosion Resistance 316SS metal tag inscribed with tag number shall be securely attached to each assembly according to ISA standards.
2- Deleted.
3- Pressure Gauge Shall be shipped Fully assembled with all required accessories
4- Painting shall be as per project Spec No. 01251-100-100-200
5-PRESSURE GAUGES SHALL BE EQUIPPED WITH SCREW DRIVER SLOT TYPE ADJUSTMENT FOR CALIBRATION PROCESS
6- Pressure Gauge Shall be Complete with 2-Way Valve Manifold
7- Gauge Shall Withstand Design Temperature & Design Pressure.

Enppi EGPC OIL TANK FARM	PRESSURE GAUGE					Spec. No.
	No.	By	Chk	Appr	Date	Description	01251-100-JSS-030-212-01
	2	M.A.S	E.E.E	M.E.A	3/10/2020	ISSUED FOR PURCHASE	Sheet No. 96 of 163
							MRQ/MRP01251-100-212-01-P
							Contract: 01251-100
							Rev.: 2 SPI Form No.:21201

Section	No.	Item	Item	Value	Value	Value
General Data	1	Tag Number		030-PG -032		
	2	Service		Reg. Valve UPSTREAM		
	3	PID No.	Nace Applicable	01251-100-030-KKE-031		
	4	Line Number	Equipment Number	10"-FW-030-007-A3		
	5	Line Size	Piping Class			
	6	Line Material	Line Schedule			
	7	Ingress Protection		IP 65		
Operating Conditions	8	Fluid	Special Conditions	Fresh Water		
	9	State		Liquid		
	10	Operating Pressure	Operating Temperature	9.5 bar-g	45 °C	
	11	Design Press. : Min.	Max. / Unit		16	bar-g
	12	Design Temp. : Min.	Max. / Unit	1	80	°C
	13					
	14					
Pressure Gauge	15	Type		Direct Reading		
	16	Instrum. Range : Min.	Max. / Unit	0	16	bar-g
	17	Dial Size	Dial Color	160 mm	Black Labels - White Background	
	18	Mounting		Local		
	19	Case	Material	Hermetically Sealed	SS 316TI	
	20	Oil Filling	Blow-Out Protection	Glycerine	Back	
	21	Lens Material		Shatterproof Laminated Safety Glass		
	22	Ring Construction	Material	Bayonet ring	316 Stainless Steel	
	23	Element : Type	Material	Bourdon	316L	
	24	Movement Material		SS 316L		
	25	Socket Material		316L		
	26	Connection : Size	Material	1/2" NPT	316 SS	
	27	Pointer Adjustment		External Zero Adjustment		
	28	Accuracy	Overpressure	+/- 1% of Full Scale	1.3 Of Maximum Scale	
	29	Process Connection Type	Material	Screwed	316 Stainless Steel	
	30	Process Connection : Size	Rating / Face	1/2" NPTM		
	31	Overpressure Protector		Overpressure safe: 2xFull Scale & Vacuum down to minus 1 bar		
Diaphragm Seal	32	Seal Type	Extension Length			
	33	Size	Rating / Face			
	34	Upper Housing Material				
	35	Lower Housing Material				
	36	Diaphragm Material				
	37	Fill Fluid	Fill Fluid Density			
	38	Capillary Material				
	39	Capillary Type	Capillary Length			
	40	Flushing Ring				
	41	Gasket / O-Ring Material				
	42					
	43					
Options	44	Siphon Type	Material	No		
	45	Movment Dampener	Material	No		
	46	Pressure Snubber	Material	No		
	47	Pressure Limit Valve	Material	No		
	48	Manifold / Model	Material	2-Way	IV 20	316 SS
Purchase	49	Manufacturer		WIKA		
	50	Model No.		233.30		
	51	Weight				

Notes:
1- Corrosion Resistance 316SS metal tag inscribed with tag number shall be securely attached to each assembly according to ISA standards.
2- Deleted.
3- Pressure Gauge Shall be shipped Fully assembled with all required accessories
4- Painting shall be as per project Spec No. 01251-100-100-200
5-PRESSURE GAUGES SHALL BE EQUIPPED WITH SCREW DRIVER SLOT TYPE ADJUSTMENT FOR CALIBRATION PROCESS
6- Pressure Gauge Shall be Complete with 2-Way Valve Manifold
7- Gauge Shall Withstand Design Temperature & Design Pressure.

Enppi EGPC OIL TANK FARM	No.	By	Chk	Appr	Date	Description	Spec. No. 01251-100-JSS-030-212-01
	0	M.A.S	E.E.E/F.R.A	M.E.A	11/28/2019	ISSUED FOR INQUIRY	Sheet No.
	1	M.A.S	E.E.E	M.E.A	2/27/2020	ISSUED FOR PURCHASE	95 of 163
	2	M.A.S	E.E.E	M.E.A	3/10/2020	RE-ISSUED FOR PURCHASE	MRQ/MRP01251-100-212-01-P
							Contract: 01251-100
							Rev.: 2 SPI Form No.:21201

PRESSURE GAUGE

Section	No.	Item	Item	Value	Value
General Data	1	Tag Number		030-PG -031	
	2	Service		TEST LINE RETURN FROM FIRE WTR PMPS	
	3	PID No.	Nace Applicable	01251-100-030-KKE-031	
	4	Line Number	Equipment Number	18"-WF-030-008-A3	
	5	Line Size	Piping Class		
	6	Line Material	Line Schedule		
	7	Ingress Protection		IP 65	
Operating Conditions	8	Fluid	Special Conditions	Fresh Water	
	9	State		Liquid	
	10	Operating Pressure	Operating Temperature	9.5 bar-g	45 °C
	11	Design Press. : Min.	Max. / Unit	16	bar-g
	12	Design Temp. : Min.	Max. / Unit	1 / 80	°C
	13				
	14				
Pressure Gauge	15	Type		Direct Reading	
	16	Instrum. Range : Min.	Max. / Unit	0 / 16	bar-g
	17	Dial Size	Dial Color	160 mm	Black Labels - White Background
	18	Mounting		Local	
	19	Case	Material	Hermetically Sealed	SS 316TI
	20	Oil Filling	Blow-Out Protection	Glycerine	Back
	21	Lens Material		Shatterproof Laminated Safety Glass	
	22	Ring Construction	Material	Bayonet ring	316 Stainless Steel
	23	Element : Type	Material	Bourdon	316L
	24	Movement Material		SS 316L	
	25	Socket Material		316L	
	26	Connection : Size	Material	1/2" NPT	316 SS
	27	Pointer Adjustment		External Zero Adjustment	
	28	Accuracy	Overpressure	+/- 1% of Full Scale	1.3 Of Maximum Scale
	29	Process Connection Type	Material	Screwed	316 Stainless Steel
	30	Process Connection : Size	Rating / Face	1/2" NPTM	
	31	Overpressure Protector		Overpressure safe: 2xFull Scale & Vacuum down to minus 1 bar	
Diaphragm Seal	32	Seal Type	Extension Length		
	33	Size	Rating / Face		
	34	Upper Housing Material			
	35	Lower Housing Material			
	36	Diaphragm Material			
	37	Fill Fluid	Fill Fluid Density		
	38	Capillary Material			
	39	Capillary Type	Capillary Length		
	40	Flushing Ring			
	41	Gasket / O-Ring Material			
	42				
	43				
Options	44	Siphon Type	Material	No	
	45	Movment Dampener	Material	No	
	46	Pressure Snubber	Material	No	
	47	Pressure Limit Valve	Material	No	
	48	Manifold / Model	Material	2-Way / IV 20	316 SS
Purchase	49	Manufacturer		WIKA	
	50	Model No.		233.30	
	51	Weight			

Notes:
1- Corrosion Resistance 316SS metal tag inscribed with tag number shall be securely attached to each assembly according to ISA standards.
2- Deleted.
3- Pressure Gauge Shall be shipped Fully assembled with all required accessories
4- Painting shall be as per project Spec No. 01251-100-100-200
5-PRESSURE GAUGES SHALL BE EQUIPPED WITH SCREW DRIVER SLOT TYPE ADJUSTMENT FOR CALIBRATION PROCESS
6- Pressure Gauge Shall be Complete with 2-Way Valve Manifold
7- Gauge Shall Withstand Design Temperature & Design Pressure.

Enppi EGPC OIL TANK FARM	PRESSURE GAUGE					Spec. No.
No.	By	Chk	Appr	Date	Description	01251-100-JSS-030-212-01
0	M.A.S	E.E.E/F.R.A	M.E.A	11/28/2019	ISSUED FOR INQUIRY	Sheet No.
1	M.A.S	E.E.E	M.E.A	2/27/2020	ISSUED FOR PURCHASE	94 of 163
2	M.A.S	E.E.E	M.E.A	3/10/2020	RE-ISSUED FOR PURCHASE	MRQ/MRP01251-100-212-01-P
						Contract: 01251-100
						Rev.: 2 SPI Form No.:21201

Section	No.	Item	Item	Value	Value	Value
General Data	1	Tag Number		030-PG -030		
	2	Service		FIRE WATER PUMP DISCHARGE HEADER		
	3	PID No.	Nace Applicable	01251-100-030-KKE-031		
	4	Line Number	Equipment Number	18"-WF-030-009-A3		
	5	Line Size	Piping Class			
	6	Line Material	Line Schedule			
	7	Ingress Protection		IP 65		
Operating Conditions	8	Fluid	Special Conditions	Fresh Water		
	9	State		Liquid		
	10	Operating Pressure	Operating Temperature	9.5 bar-g	45 °C	
	11	Design Press. : Min.	Max. Unit		16	bar-g
	12	Design Temp. : Min.	Max. Unit	1	80	°C
	13					
	14					
Pressure Gauge	15	Type		Direct Reading		
	16	Instrum. Range : Min.	Max. Unit	0	16	bar-g
	17	Dial Size	Dial Color	160 mm	Black Labels - White Background	
	18	Mounting		Local		
	19	Case	Material	Hermetically Sealed	SS 316TI	
	20	Oil Filling	Blow-Out Protection	Glycerine	Back	
	21	Lens Material		Shatterproof Laminated Safety Glass		
	22	Ring Construction	Material	Bayonet ring	316 Stainless Steel	
	23	Element : Type	Material	Bourdon	316L	
	24	Movement Material		SS 316L		
	25	Socket Material		316L		
	26	Connection : Size	Material	1/2" NPT	316 SS	
	27	Pointer Adjustment		External Zero Adjustment		
	28	Accuracy	Overpressure	+/- 1% of Full Scale	1.3 Of Maximum Scale	
	29	Process Connection Type	Material	Screwed	316 Stainless Steel	
	30	Process Connection : Size	Rating Face	1/2" NPTM		
	31	Overpressure Protector		Overpressure safe: 2xFull Scale & Vacuum down to minus 1 bar		
Diaphragm Seal	32	Seal Type	Extension Length			
	33	Size	Rating Face			
	34	Upper Housing Material				
	35	Lower Housing Material				
	36	Diaphragm Material				
	37	Fill Fluid	Fill Fluid Density			
	38	Capillary Material				
	39	Capillary Type	Capillary Length			
	40	Flushing Ring				
	41	Gasket / O-Ring Material				
	42					
	43					
Options	44	Siphon Type	Material	No		
	45	Movment Dampener	Material	No		
	46	Pressure Snubber	Material	No		
	47	Pressure Limit Valve	Material	No		
	48	Manifold Model	Material	2-Way	IV 20	316 SS
Purchase	49	Manufacturer		WIKA		
	50	Model No.		233.30		
	51	Weight				

Notes: 1- Corrosion Resistance 316SS metal tag inscribed with tag number shall be securely attached to each assembly according to ISA standards.
2- Deleted.
3- Pressure Gauge Shall be shipped Fully assembled with all required accessories
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5-PRESSURE GAUGES SHALL BE EQUIPPED WITH SCREW DRIVER SLOT TYPE ADJUSTMENT FOR CALIBRATION PROCESS
6- Pressure Gauge Shall be Complete with 2-Way Valve Manifold
7- Gauge Shall Withstand Design Temperature & Design Pressure.

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.03- Instrument Cable Schedule

ITEM NO.	CABLE TAG NO.	CABLE TYPE	CABLE SIZE	FROM	TO	LENGTH		CABLE DRUM	SYSTEM	REMARKS	REV.
001.6	IC-030LIT030	ADK-O1	1x2x1.5	030-LIT -030	030-AJB-001	210	m	CD-030-ADK-01-02	PLC		3

CLIENT: EGPC
LOCATION: AGROOD-1
PROJECT NO. 1251-100
INSTRUMENT CABLES LIST FIELD

EGPC
CRUDE OIL TANK FARM
FIRE AND GAS SYSTEM CABLE SCHEDULE

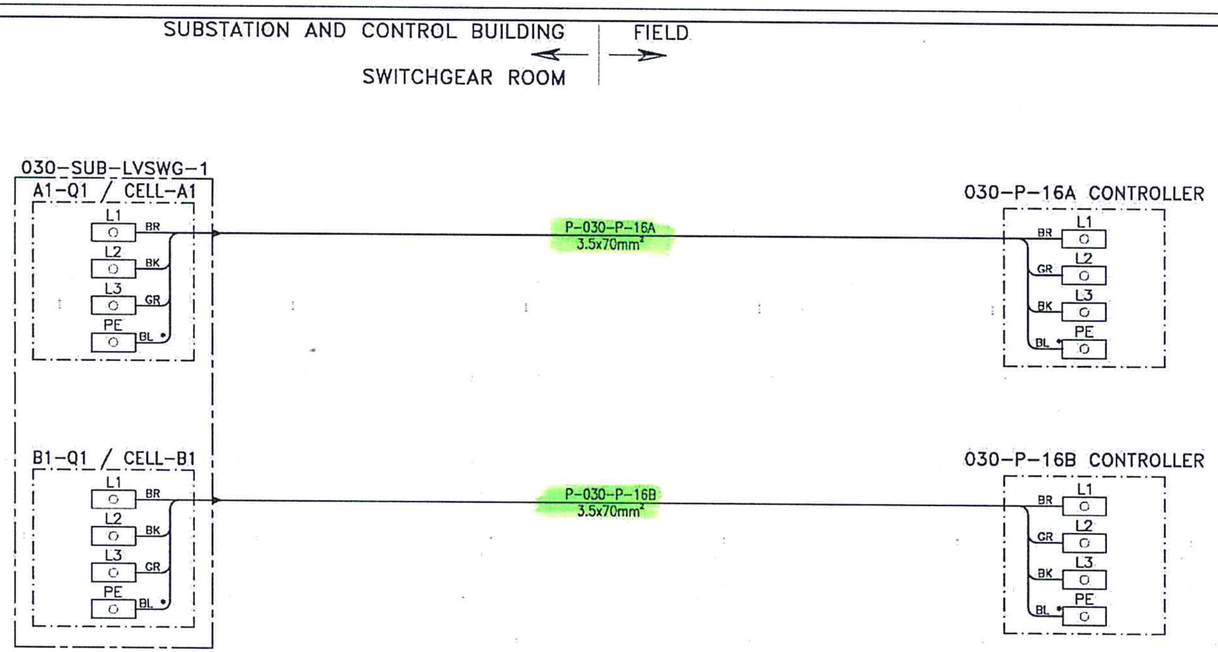
DOC. NO.: 01251-100-030-ASS-001
REV.: 2
DATE: 15/11/2020

ITEM	CABLE TAG	CABLE COMPOSITION mm2	SIGNAL TYPE	SHIELDING		ARM.	FROM	TO	LENGTH (m)	EXT. COLOUR SHEATH	EXT. DIAM (mm)	GLAND TYPE (NOTE-2)	DRUM NO.	CABLE CODE		NOTE	Rev
				overall	Indiv.												
6	030GD002	1 X 3 X 2.5 mm2	AI		YES	YES	030GD002	030AJBF01	420	RED	17.53	PAP#01- M20	CD-030-F6-02	F6			2
7	030FD004	1 X 3 X 2.5 mm2	AI		YES	YES	030FD004	030AJBF01	910	RED	17.53	PAP#01- M20	CD-030-F6-03	F6			2
8	030GD004	1 X 3 X 2.5 mm2	AI		YES	YES	030GD004	030AJBF01	910	RED	17.53	PAP#01- M20	CD-030-F6-03	F6			2
9	030GD005	1 X 3 X 1.5 mm2	AI		YES	YES	030GD005	030AJBF01	20	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
10	030GD006	1 X 3 X 1.5 mm2	AI		YES	YES	030GD006	030AJBF01	20	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
11	030AJBF02	12 X 3 X 1.5 mm2	ANALOG	YES	YES	YES	030AJBF02	MARSHALLING CABINET	400	RED	41.4	PAP#05- M50	CD-030-F11-01	F11			2
1	030FD013	1 X 3 X 1.5 mm2	AI		YES	YES	030FD013	030AJBF02	130	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
2	030GD015	1 X 3 X 1.5 mm2	AI		YES	YES	030GD015	030AJBF02	130	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
3	030FD006	1 X 3 X 1.5 mm2	AI		YES	YES	030FD006	030AJBF02	80	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
4	030GD009	1 X 3 X 1.5 mm2	AI		YES	YES	030GD009	030AJBF02	50	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
5	030GD010	1 X 3 X 1.5 mm2	AI		YES	YES	030GD010	030AJBF02	40	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
6	030GD007	1 X 3 X 1.5 mm2	AI		YES	YES	030GD007	030AJBF02	80	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
7	030GD008	1 X 3 X 1.5 mm2	AI		YES	YES	030GD008	030AJBF02	20	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
8	030FD007	1 X 3 X 1.5 mm2	AI		YES	YES	030FD007	030AJBF02	80	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
9	030FD005	1 X 3 X 1.5 mm2	AI		YES	YES	030FD005	030AJBF02	90	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
12	030AJBF03	12 X 3 X 1.5 mm2	ANALOG	YES	YES	YES	030AJBF03	MARSHALLING CABINET	400	RED	41.4	PAP#05- M50	CD-030-F11-02	F11			2
1	030FD010	1 X 3 X 1.5 mm2	AI		YES	YES	030FD010	030AJBF03	80	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
2	030FD011	1 X 3 X 1.5 mm2	AI		YES	YES	030FD011	030AJBF03	120	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
3	030FD008	1 X 3 X 1.5 mm2	AI		YES	YES	030FD008	030AJBF03	30	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
4	030GD013	1 X 3 X 1.5 mm2	AI		YES	YES	030GD013	030AJBF03	90	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
5	030GD014	1 X 3 X 1.5 mm2	AI		YES	YES	030GD014	030AJBF03	110	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
6	030GD011	1 X 3 X 1.5 mm2	AI		YES	YES	030GD011	030AJBF03	20	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
7	030GD012	1 X 3 X 1.5 mm2	AI		YES	YES	030GD012	030AJBF03	70	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
8	030FD012	1 X 3 X 1.5 mm2	AI		YES	YES	030FD012	030AJBF03	120	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
9	030FD009	1 X 3 X 1.5 mm2	AI		YES	YES	030FD009	030AJBF03	50	RED	16	PAP#01- M20	CD-030-F5-01	F5			2
14	030P16A	4 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030P16A	MARSHALLING CABINET	220	RED	23.2	PAP#02- M25	CD-030-F7-01	F7			2
15	030P16B	4 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030P16B	MARSHALLING CABINET	220	RED	23.2	PAP#02- M25	CD-030-F7-01	F7			2
16	030P15A	8 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030P15A	MARSHALLING CABINET	240	RED	29.2	PAP#03- M32	CD-030-F8-02	F8			2
17	030P15B	8 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030P15B	MARSHALLING CABINET	250	RED	29.2	PAP#03- M32	CD-030-F8-02	F8			2
18	030P15C	8 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030P15C	MARSHALLING CABINET	260	RED	29.2	PAP#03- M32	CD-030-F8-02	F8			2
19	030EPMF01	12 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030EPMF01	MARSHALLING CABINET	470	RED	33.5	PAP#04- M40	CD-030-F10-02	F10			2
20	030EPMF02	12 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030EPMF02	MARSHALLING CABINET	690	RED	33.5	PAP#04- M40	CD-030-F10-03	F10			2
21	030EPMF03	12 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030EPMF03	MARSHALLING CABINET	700	RED	33.5	PAP#04- M40	CD-030-F10-02	F10			2
22	030EPMF04	12 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030EPMF04	MARSHALLING CABINET	990	RED	33.5	PAP#04- M40	CD-030-F10-01	F10			2
23	030GATE01	12 X 2 X 1.5 mm2	DIGITAL	YES	NO	YES	030GATE01	MARSHALLING CABINET	820	RED	33.5	PAP#04- M40	CD-030-F13-01	F10			2
24	SUB-SLC	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	NO	FACP	INPUT DEVICES	1000	RED	11.81		CD-030-F1-01	F1			2
25	SUB-NAC	1 X 2 X 2.5 mm2	DIGITAL	NO	NO	NO	FACP	OUTPUT DEVICES	1000	RED	13.1		CD-030-F2-01	F2			2
26	PLC	8X2X1.5 mm2	DIGITAL	YES	NO	NO	FACP	PLC	45	RED	29.2	PAP#03- M32	CD-030-F8-02	F8			2
27	HVAC	1 X 2 X 1.5 mm2	DO	NO	NO	NO	FACP	HVAC	45	RED	11.81		CD-030-F1-01	F1			2
28	ESD	1 X 2 X 1.5 mm2	DO	NO	NO	NO	PLC	ESD	20	RED	11.81		CD-030-F1-01	F1			2
29	HMI	CAT5/6	SERIAL	NO	NO	NO	PLC	WORKSTATION	25	RED						BY SUPPLIER	2
30	BAT-CHARG	1 X 2 X 1.5 mm2	DO	NO	NO	NO	FACP	BATTERY CHARGER	70	RED	11.81		CD-030-F1-01	F1			2
31	030PSH010	1 X 2 X 1.5 mm2	DI	NO	NO	YES	DV-02 (PSH)	FACP	220	RED	15.2	PAP#01-M20	CD-030-F3-03	F3			2
32	030SV02	1 X 2 X 2.5 mm2	DO	NO	NO	YES	FACP	(DV-02)SV-02	220	RED	16.7	PAP#01- M20	CD-030-F4-01	F4			2
33	GATE-SLC	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	NO	FACP	INPUT DEVICES	40	RED	11.81		CD-030-F1-01	F1			2
34	GATE-NAC	1 X 2 X 2.5 mm2	DIGITAL	NO	NO	NO	FACP	OUTPUT DEVICES	30	RED	13.1		CD-030-F2-01	F2			2
35	030PSH001A/B	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH001A	030PSH001B	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
36	030PSH001B/C	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH001B	030PSH001C	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
37	030PSH001C/D	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH001C	030PSH001D	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
38	030PSH003A/B	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH003A	030PSH003B	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
39	030PSH003B/C	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH003B	030PSH003C	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
40	030PSH003C/D	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH003C	030PSH003D	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
41	030PSH005A/B	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH005A	030PSH005B	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
42	030PSH005B/C	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH005B	030PSH005C	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
43	030PSH005C/D	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH005C	030PSH005D	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
44	030PSH007A/B	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH007A	030PSH007B	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
45	030PSH007B/C	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH007B	030PSH007C	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2
46	030PSH007C/D	1 X 2 X 1.5 mm2	DIGITAL	NO	NO	YES	030PSH007C	030PSH007D	10	RED	15.2	PAP#01-1/2" NPT	CD-030-F3-03	F3			2

AGE+A1:L3	Cable Mark	GL1	FROM	TO	GL2	CABLEService	Service Voltage	KW	Size	Type	L
29	P-030-P-15A	WP	030-SUB-ASP-1 (Q22)	030-P-15A CONTROLLER	EX	1PH POWER FEEDER	230VAC	4.5	3x25	3E	240
29	P-030-P-15B	WP	030-SUB-ASP-1 (Q23)	030-P-15B CONTROLLER	EX	1PH POWER FEEDER	230VAC	4.5	3x25	3E	225
29	P-030-P-15C	WP	030-SUB-ASP-1 (Q24)	030-P-15C CONTROLLER	EX	1PH POWER FEEDER	230VAC	4.5	3x25	3E	210
30	P-030-P-16A	WP	030-SUB-LVSWG-1 (A1-Q1)	030-P-16A CONTROLLER	EX	3PH POWER FEEDER	400VAC	40	3.5x70	4B	210
30	P-030-P-16B	WP	030-SUB-LVSWG-1 (B1-Q1)	030-P-16B CONTROLLER	EX	3PH POWER FEEDER	400VAC	40.0	3.5x70	4B	200

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.04- System Instrumentation Wiring Diagram



* BLUE CABLE CORE SHALL BE COVERED WITH Y/G TAPE

EGPC
THE EGYPTIAN GENERAL PETROLEUM CO.
الهيئة العامة المصرية للبترول

FOR : THE EGYPTIAN GENERAL PETROLEUM CORPORATION (EGPC)
لحساب الهيئة العامة المصرية للبترول

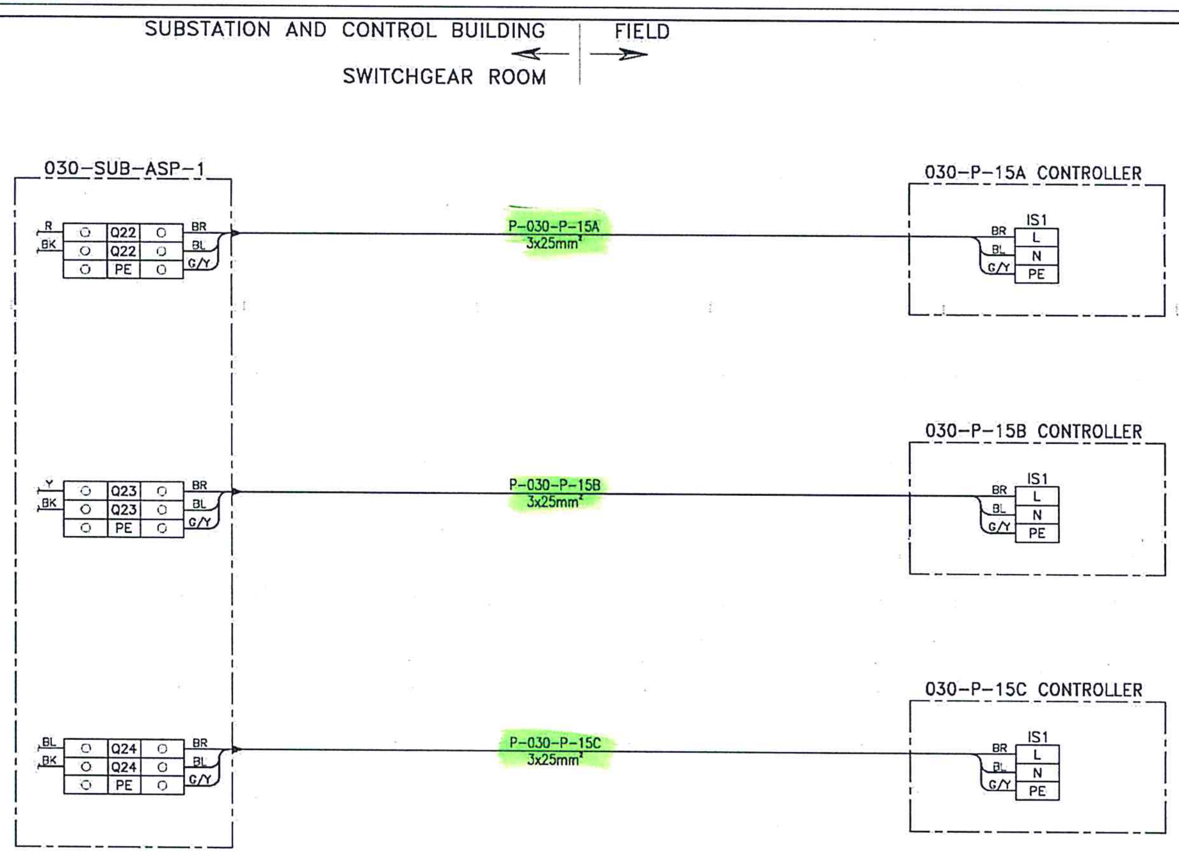
AT : AGROOD
موقع :عجرود السويس

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
ELECTRICAL INTERCONNECTION & WIRING DIAGRAM
JOCKEY FIRE WATER PUMPS CONTROLLER
(030-P-16A/B)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NONE	01251-100-030-EWI-001	039 OF 078	1

A3 SIZE: 297



EGPC
THE EGYPTIAN GENERAL PETROLEUM CO.
الهيئة العامة المصرية للبترول
EGPC

FOR : THE EGYPTIAN GENERAL PETROLEUM CORPORATION (EGPC) — الهيئة العامة المصرية للبترول

AT : AGROOD — موقع : عجرود السويس

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
ELECTRICAL INTERCONNECTION & WIRING DIAGRAM
DIESEL FIRE WATER PUMPS CONTROLLER
(030-P-15A/B/C)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

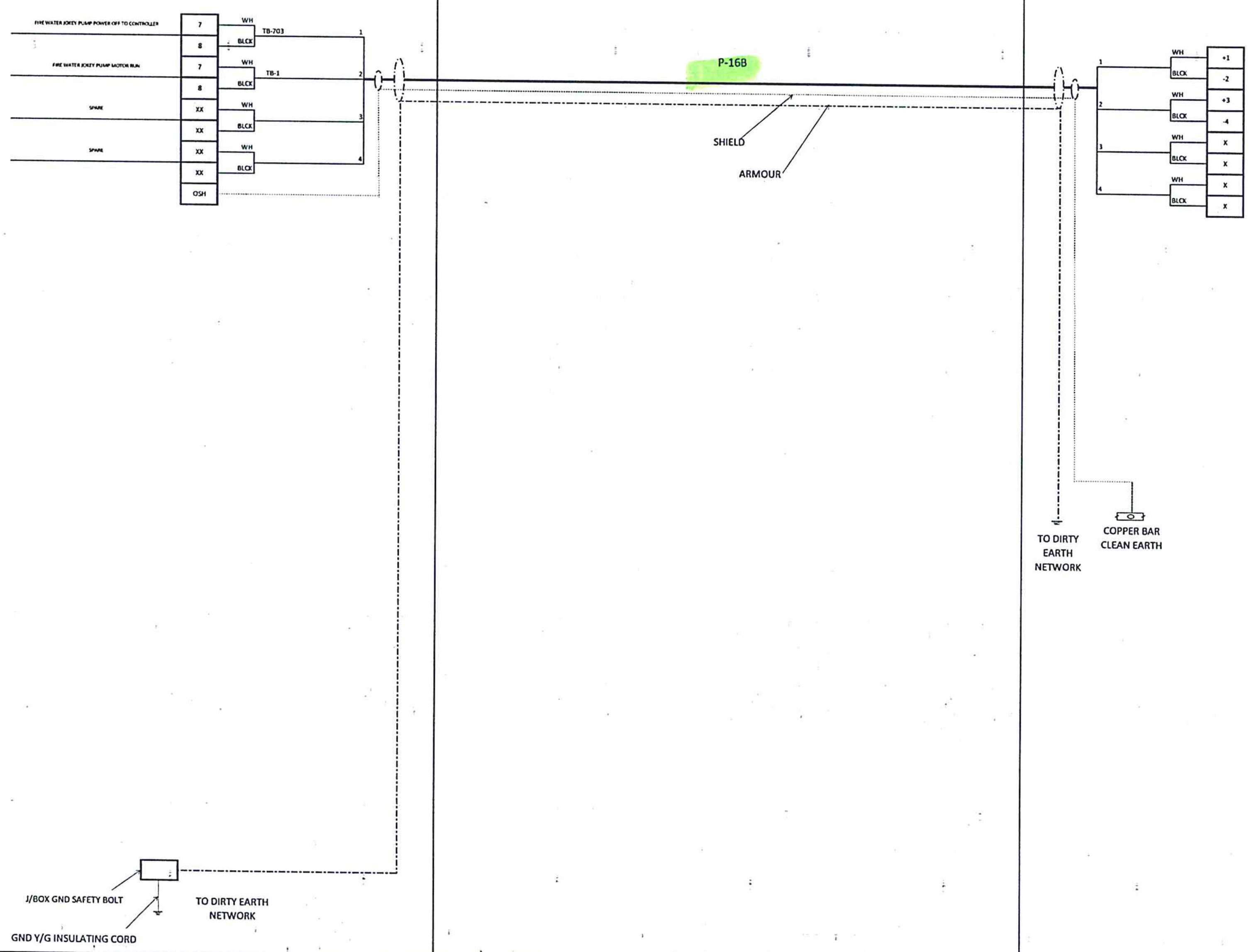
SCALE	DOCUMENT NUMBER	SHEET	REVISION
NONE	01251-100-030-EWI-001	038 OF 078	C

A3 SIZE: 297

TERMINAL STRIP :	K703/TB-1	SIGNAL TYPE :	DI	MULTI CABLE TAG :	P-16B	F&G PANEL LOCATION :	SUBSTATION BUILDING
AREA DESCRIPTION :	-	INDIVIDUAL CABLES CODE :	-	MULTI CABLE SIZE :	4 X 2 X 1.5 mm^2	I/Os CABINET No. :	FGS-MC-01
PANELTAG :	P-16B			MULTI CABLE CODE :	F7	TERMINAL STRIP :	P-16B

INTERCONNECTING WIRING DIAGRAM FOR JUNCTION BOX

P-16B



FIRE FIGHTING JOCKEY PUMP LOCATED AT FIELD

MULTI CABLE RUN FROM JUNCTION BOX TO PANEL

FIRE AND GAS SYSTEM PANEL

ABBR.	DESCRIPTION
JBF	DIGITAL JUNCTION BOX
AJBF	ANALOG JUNCTION BOX
RD	RED WIRE COLOR
WH	WHITE WIRE COLOR
BK	BLACK WIRE COLOR
LHD	LINEAR HEAT DETECTOR
MCP	MANUAL CALL POINT
PSH	PRESSURE SWITCH HIGH
HR	HORN
STR	RED STROBE
STB	BLUE STROBE
SV	SOLENOID VALVE OUTPUT SIGNAL
GD	ANALOG GAS DETECTOR
FD	FLAME DETECTOR

NOTICE

EGPC

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

EGPC

CRUDE OIL TANK FARM

FIRE AND GAS INTERCONNECTING WIRING DIAGRAM

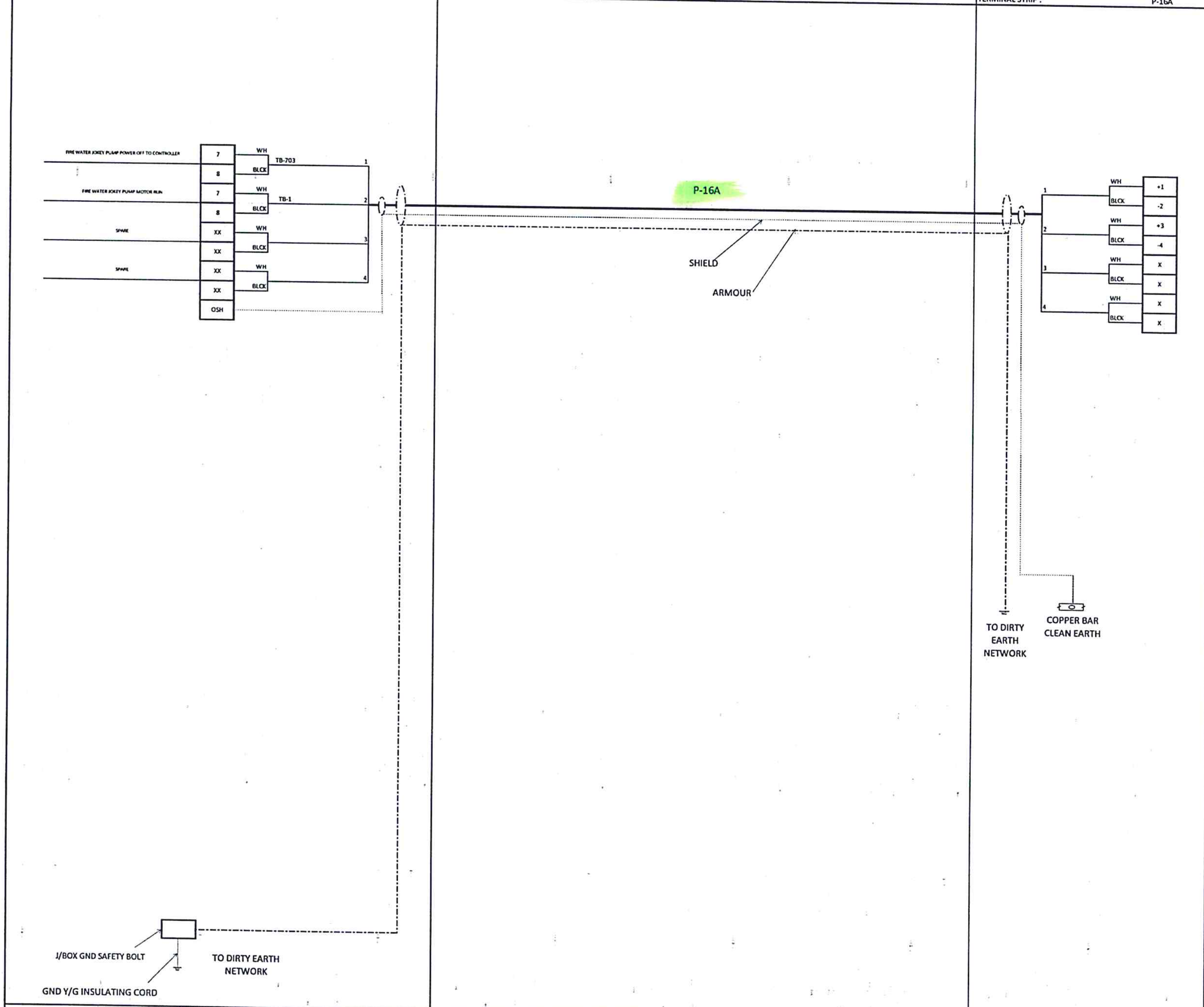
DRAWING NUMBER:	SCALE	SHEET	REV
01251-100-030-AWD-001	NONE	19 OF 25	2

A3 SIZE: 420 X 297

TERMINAL STRIP :	K703/TB-1	SIGNAL TYPE :	DI	MULTI CABLE TAG :	P-16A	F&G PANEL LOCATION :	SUBSTATION BUILDING
AREA DESCRIPTION :	-	INDIVIDUAL CABLES CODE :	-	MULTI CABLE SIZE :	4 X 2 X 1.5 mm^2	I/Os CABINET No. :	FGS-MC-01
PANELTAG :	P-16A			MULTI CABLE CODE :	F7	TERMINAL STRIP :	P-16A

INTERCONNECTING WIRING DIAGRAM FOR JUNCTION BOX

P-16A



ABBR.	DESCRIPTION
JBF	DIGITAL JUNCTION BOX
AJBF	ANALOG JUNCTION BOX
RD	RED WIRE COLOR
WH	WHITE WIRE COLOR
BK	BLACK WIRE COLOR
LHD	LINEAR HEAT DETECTOR
MCP	MANUAL CALL POINT
PSH	PRESSURE SWITCH HIGH
HR	HORN
STR	RED STROBE
STB	BLUE STROBE
SV	SOLENOID VALVE OUTPUT SIGNAL
GD	ANALOG GAS DETECTOR
FD	FLAME DETECTOR

EGPC

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EGPC

CRUDE OIL TANK FARM

FIRE AND GAS INTERCONNECTING WIRING DIAGRAM

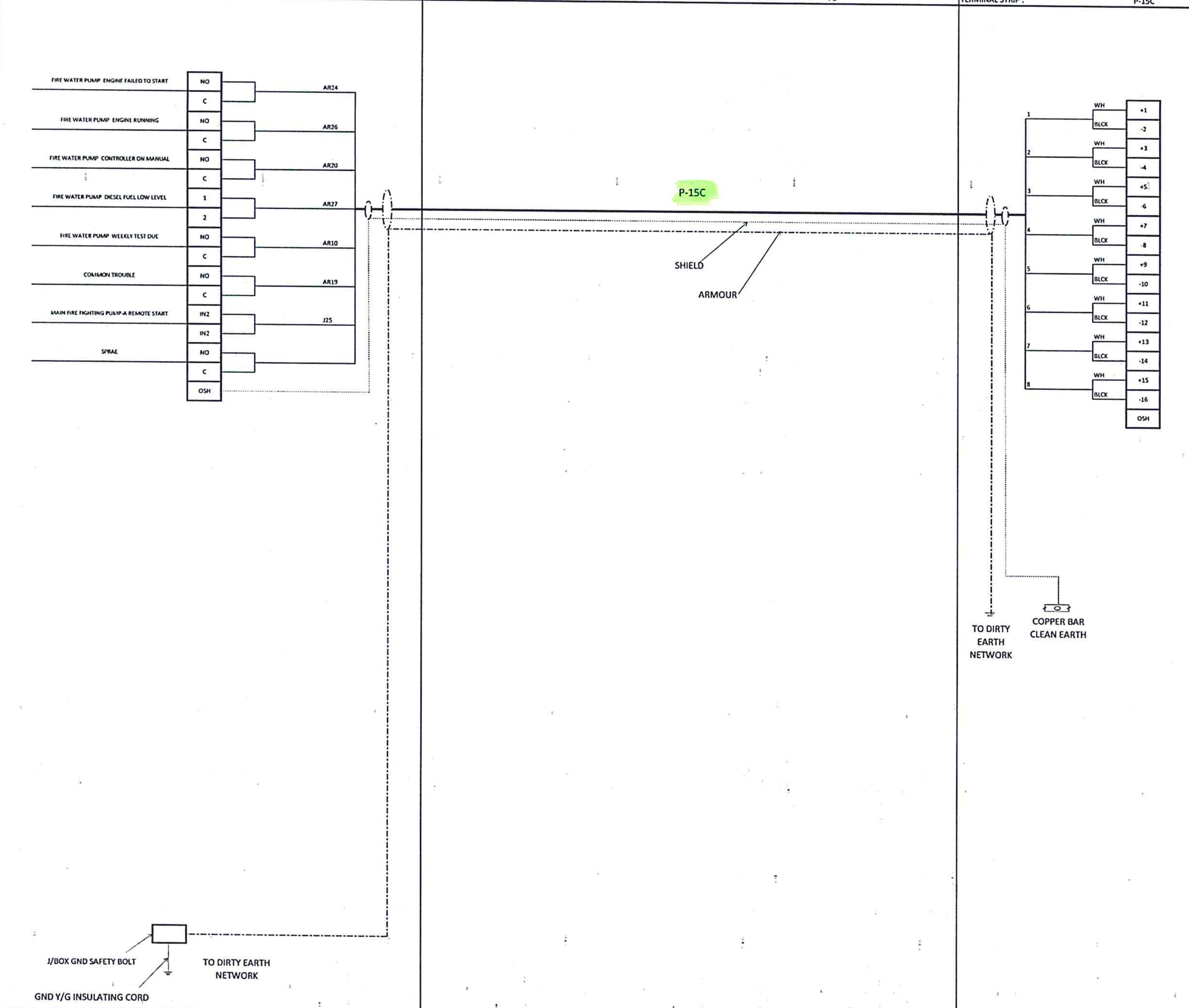
DRAWING NUMBER:	SCALE	SHEET	REV
01251-100-030-AWD-001	NONE	18 OF 25	2

A3 SIZE: 420 X 297

FIRE ZONE :	FIRE WATER PUMPS	SIGNAL TYPE :	DI/DO	MULTI CABLE TAG :	P-15C	F&G PANEL LOCATION :	SUBSTATION BUILDING
AREA DESCRIPTION :	-	JUNCTION BOX TYPE :	-	MULTI CABLE SIZE :	8 X 2 X 1.5 mm^2	I/Os CABINET No. :	-
JUNCTION BOX TAG :	P-15C	INDIVIDUAL CABLES CODE :	-	MULTI CABLE CODE :	F8	TERMINAL STRIP :	P-15C

INTERCONNECTING WIRING DIAGRAM FOR JUNCTION BOX

P-15C



FRIE WATER PUMP CONTROLLER | MULTI CABLE RUN FROM JUNCTION BOX TO PANEL | FIRE AND GAS SYSTEM PANEL

ABBR.	DESCRIPTION
JBF	DIGITAL JUNCTION BOX
AJBF	ANALOG JUNCTION BOX
RD	RED WIRE COLOR
WH	WHITE WIRE COLOR
BK	BLACK WIRE COLOR
LHD	LINEAR HEAT DETECTOR
MCP	MANUAL CALL POINT
PSH	PRESSURE SWITCH HIGH
HR	HORN
STR	RED STROBE
STB	BLUE STROBE
SV	SOLENOID VALVE OUTPUT SIGNAL
GD	ANALOG GAS DETECTOR
FD	FLAME DETECTOR

NOTICE

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

EGPC

CRUDE OIL TANK FARM

FIRE AND GAS INTERCONNECTING WIRING DIAGRAM

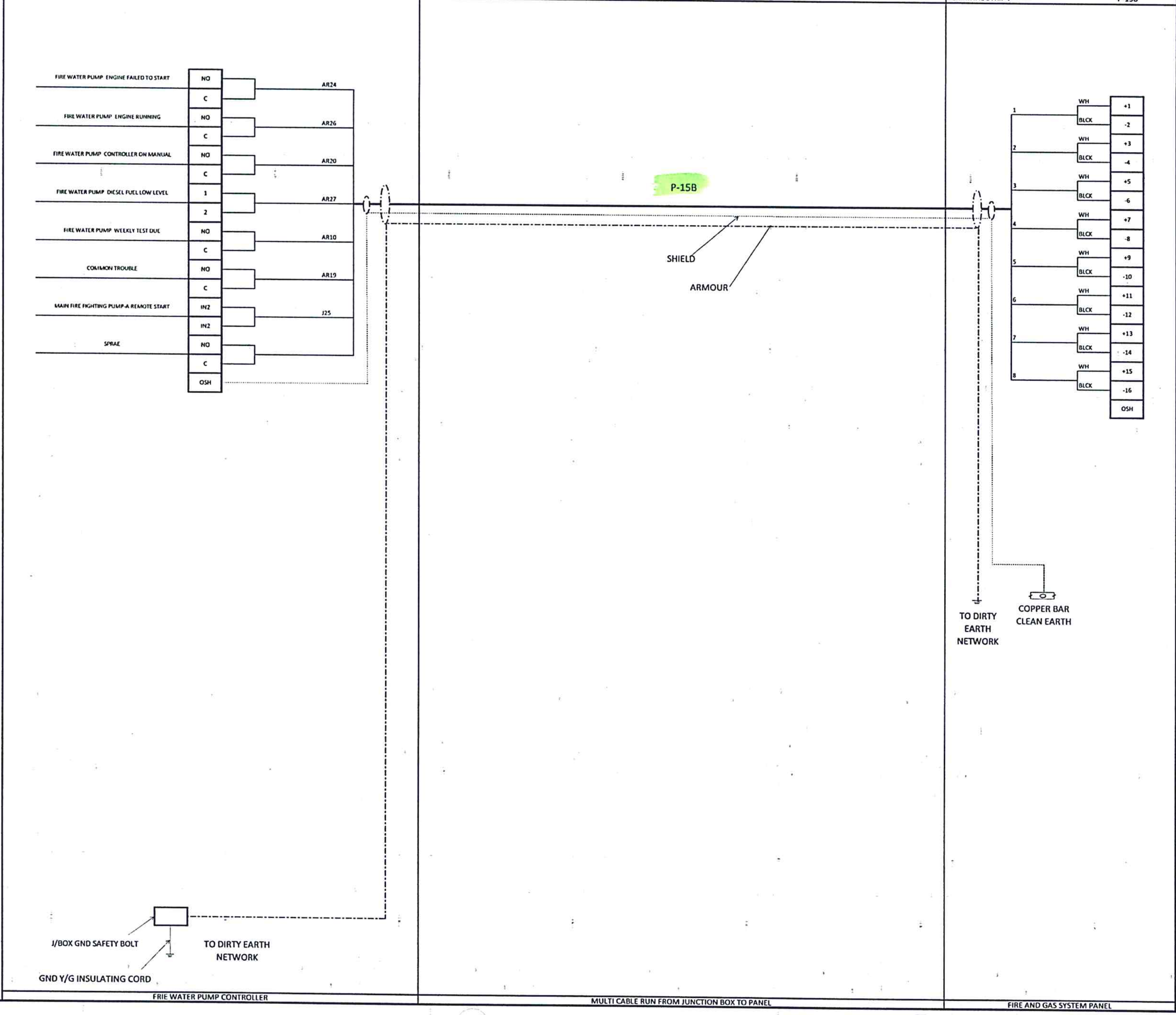
DRAWING NUMBER:	SCALE	SHEET	REV
61251-100-030-AWD-001	NONE	17 OF 25	2

A3 SIZE: 420 X 297

FIRE ZONE :	FIRE WATER PUMPS	SIGNAL TYPE :	DI/DO	MULTI CABLE TAG :	P-15B	F&G PANEL LOCATION :	SUBSTATION BUILDING
AREA DESCRIPTION :	-	JUNCTION BOX TYPE :	-	MULTI CABLE SIZE :	8 X 2 X 1.5 mm^2	I/Os CABINET No. :	-
JUNCTION BOX TAG :	P-15B	INDIVIDUAL CABLES CODE :	-	MULTI CABLE CODE :	F8	TERMINAL STRIP :	P-15B

INTERCONNECTING WIRING DIAGRAM FOR JUNCTION BOX

P-15B



ABBR.	DESCRIPTION
JBF	DIGITAL JUNCTION BOX
AJBF	ANALOG JUNCTION BOX
RD	RED WIRE COLOR
WH	WHITE WIRE COLOR
BK	BLACK WIRE COLOR
LHD	LINEAR HEAT DETECTOR
MCP	MANUAL CALL POINT
PSH	PRESSURE SWITCH HIGH
HR	HORN
STR	RED STROBE
STB	BLUE STROBE
SV	SOLENOID VALVE OUTPUT SIGNAL
GD	ANALOG GAS DETECTOR
FD	FLAME DETECTOR

NOTICE

EGPC

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

EGPC

CRUDE OIL TANK FARM

FIRE AND GAS INTERCONNECTING WIRING DIAGRAM

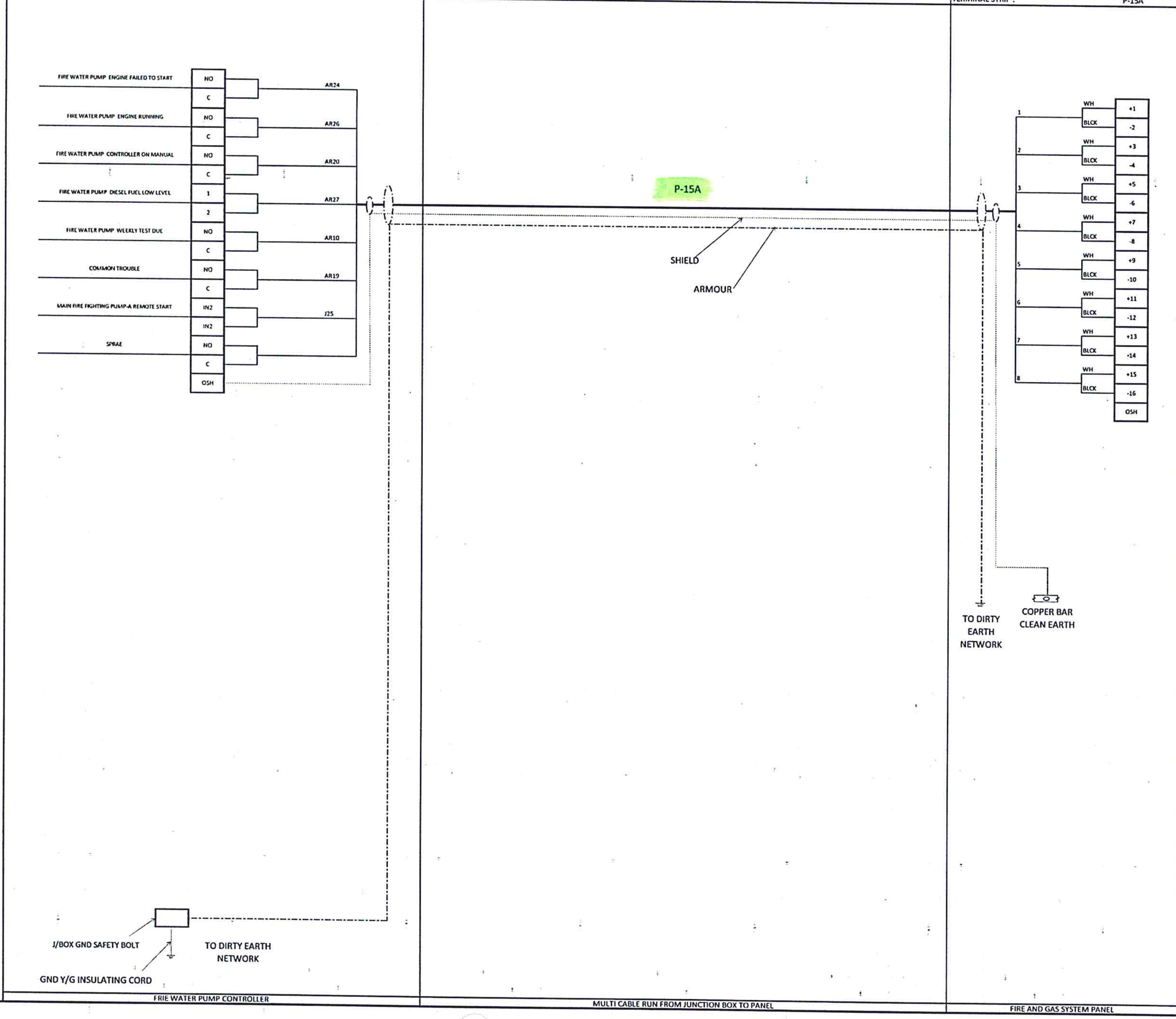
DRAWING NUMBER:	SCALE	SHEET	REV
61251-100-030-AWD-001	NONE	16 OF 25	2

A3 SIZE: 420 X 297

FIRE ZONE :	FIRE WATER PUMPS	SIGNAL TYPE :	DI/DO	MULTI CABLE TAG :	P-15A	F&G PANEL LOCATION :	SUBSTATION BUILDING
AREA DESCRIPTION :	-	JUNCTION BOX TYPE :	-	MULTI CABLE SIZE :	8 X 2 X 1.5 mm^2	I/Os CABINET No. :	-
JUNCTION BOX TAG :	P-15A	INDIVIDUAL CABLES CODE :	-	MULTI CABLE CODE :	F8	TERMINAL STRIP :	P-15A

INTERCONNECTING WIRING DIAGRAM FOR JUNCTION BOX

P-15A



ABBR.	DESCRIPTION
JBF	DIGITAL JUNCTION BOX
AJBF	ANALOG JUNCTION BOX
RD	RED WIRE COLOR
WH	WHITE WIRE COLOR
BK	BLACK WIRE COLOR
LHD	LINEAR HEAT DETECTOR
MCP	MANUAL CALL POINT
PSH	PRESSURE SWITCH HIGH
HR	HORN
STR	RED STROBE
STB	BLUE STROBE
SV	SOLENOID VALVE OUTPUT SIGNAL
GD	ANALOG GAS DETECTOR
FD	FLAME DETECTOR

EGPC

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

EGPC

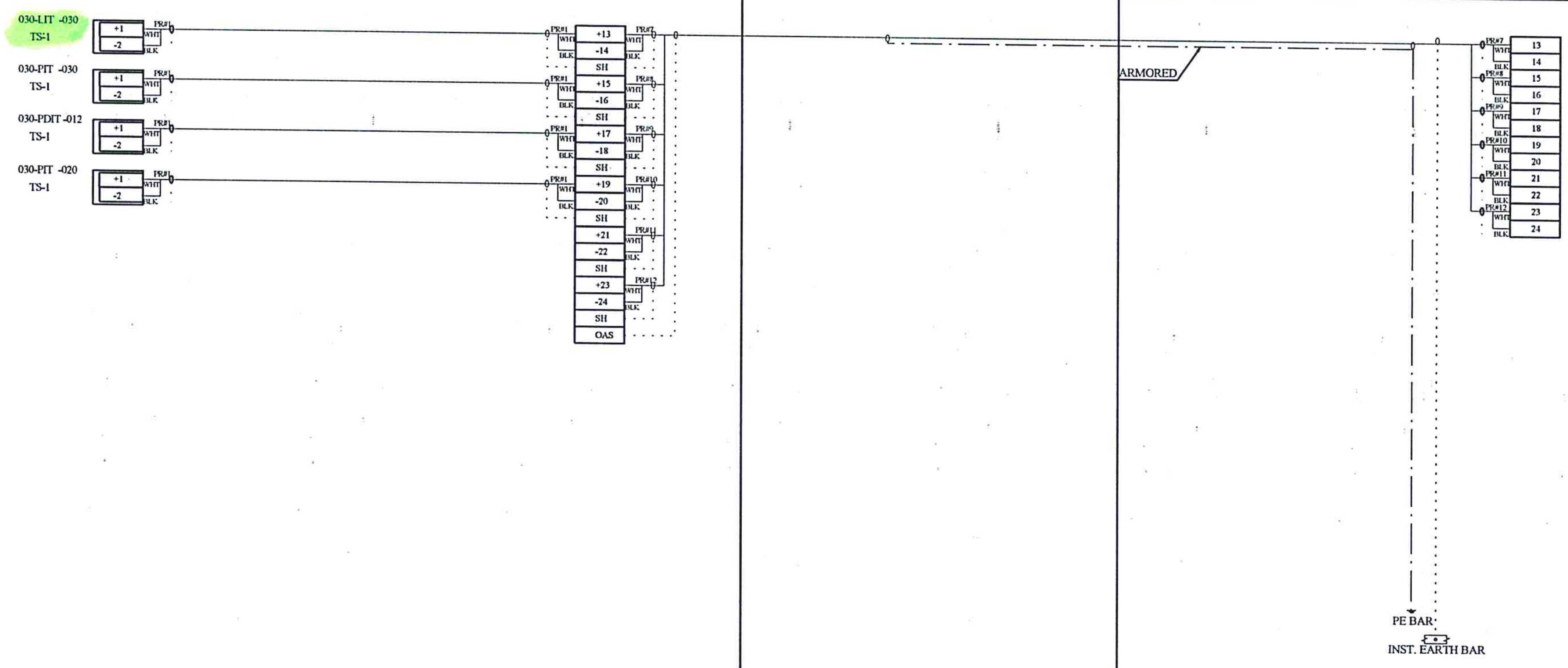
CRUDE OIL TANK FARM

FIRE AND GAS INTERCONNECTING WIRING DIAGRAM

DRAWING NUMBER:	SCALE	SHEET	REV
01251-100-030-AWD-001	NONE	15 OF 25	2

A3 SIZE: 420 X 297

AREA	FIELD	CABLE TAG	IC-030AJB001	AREA	CONTROL ROOM
JUNCTION BOX	030-AJB-001	COMPOSITION	12x2x1.5 mm²	CABINET	030-PLC-MC-03
TERMINAL SRIP	TB-02	TYPE	QDK-I1	TERMINAL STRIP	030-AJB-001



NOTES

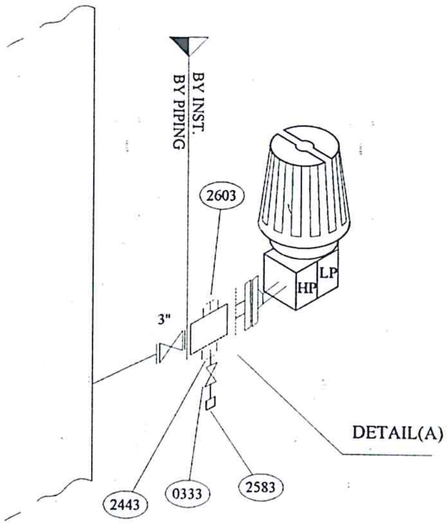
EGPC
INTERCONNECTING WIRING DIAGRAM
030-AJB-001
TB-02

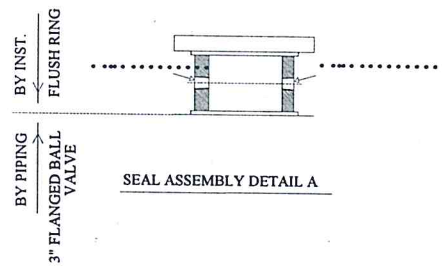
المركز الهندسي للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

DRAWING NO.	SHEET	REVISION
01251-100-030-JDB-002	7	2

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.05- Hook-up Drawing (Mechanical & Pneumatic)





SEAL ASSEMBLY DETAIL A

TAG NO.
030-LIT-020
030-LIT-021
030-LIT-022
030-LIT-023
030-LIT-030

BILL OF MATERIAL (TYPICAL FOR ONE INSTALLATION)

ITEM	QTY	SIZE	DESCRIPTION
2583	1	1/2"	MNPT HEX PLUG. 316 S.S.
0333	1	1/2"	1/2" FXF SCRD, NEEDLE HAND VALVE, 316 S.S.
2603	1	1/2"	MNPT PIPE VENT PLUG, SOILED HEX HEAD, 316 S.S.
2443	1	1/2"	MNPT HEX. LONG NIPPLE, 6000#, 316 S.S.

NOTES

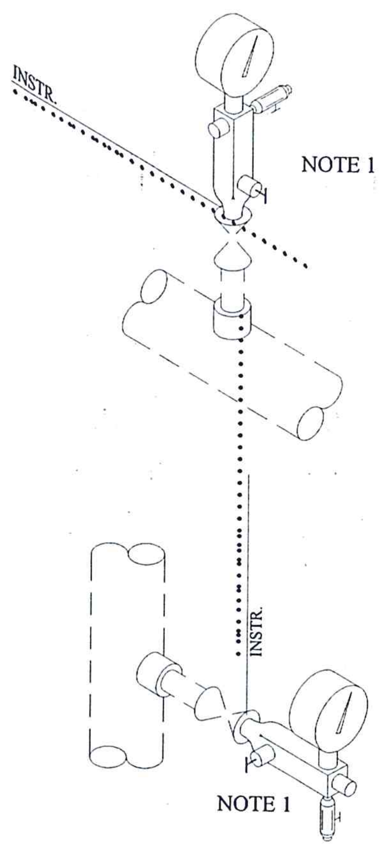
1- DIFF. PRESSURE LEVEL TRANSMITTER SHALL BE SUPPLIED C/W FLUSH RINGS & ITS ACCESSORIES (BY INSTRUMENT SUPPLIER).

2- DIFF. PRESSURE LEVEL TRANSMITTER SHALL BE SUPPLIED WITH 1 SIDE CAPILLARY TUBE 3" FLANGE (BY INSTRUMENT SUPPLIER)

EGPC CRUDE OIL TANK FARM
INSTRUMENT MECHANICAL HOOK-UP
DP LEVEL TRANSMITTER
AT TANK

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

DRAWING NUMBER	SHEET	REVISION
01251-100-030-JDB-003	8	1



TAG NO.	TAG NO.
030-PG-001	030-PG-044
030-PG-002	030-PG-045
030-PG-003	030-PG-046
030-PG-004	030-PG-047
030-PG-005	030-PG-048
030-PG-006	030-PG-049
030-PG-020	030-PG-050
030-PG-021	030-PG-051
030-PG-022	
030-PG-023	
030-PG-024	
030-PG-025	
030-PG-026	
030-PG-027	
030-PG-030	
030-PG-031	
030-PG-032	
030-PG-034	
030-PG-040	
030-PG-041	

BILL OF MATERIAL (TYPICAL FOR ONE INSTALLATION)

ITEM	QTY	SIZE	DESCRIPTION

NOTES

1-GAUGE SHALL BE SUPPLIED C/W 2-VALVE MANIFOLD (BY GAUGE SUPPLIER).

EGPC
INSTRUMENT MECHANICAL HOOK-UP
PRESSURE GAUGES
(LIQUID SERVICE) VERT/HORZ. INSTALLATION

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

DRAWING NUMBER	SHEET	REVISION
01251-100-030-JDB-003	3	1

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

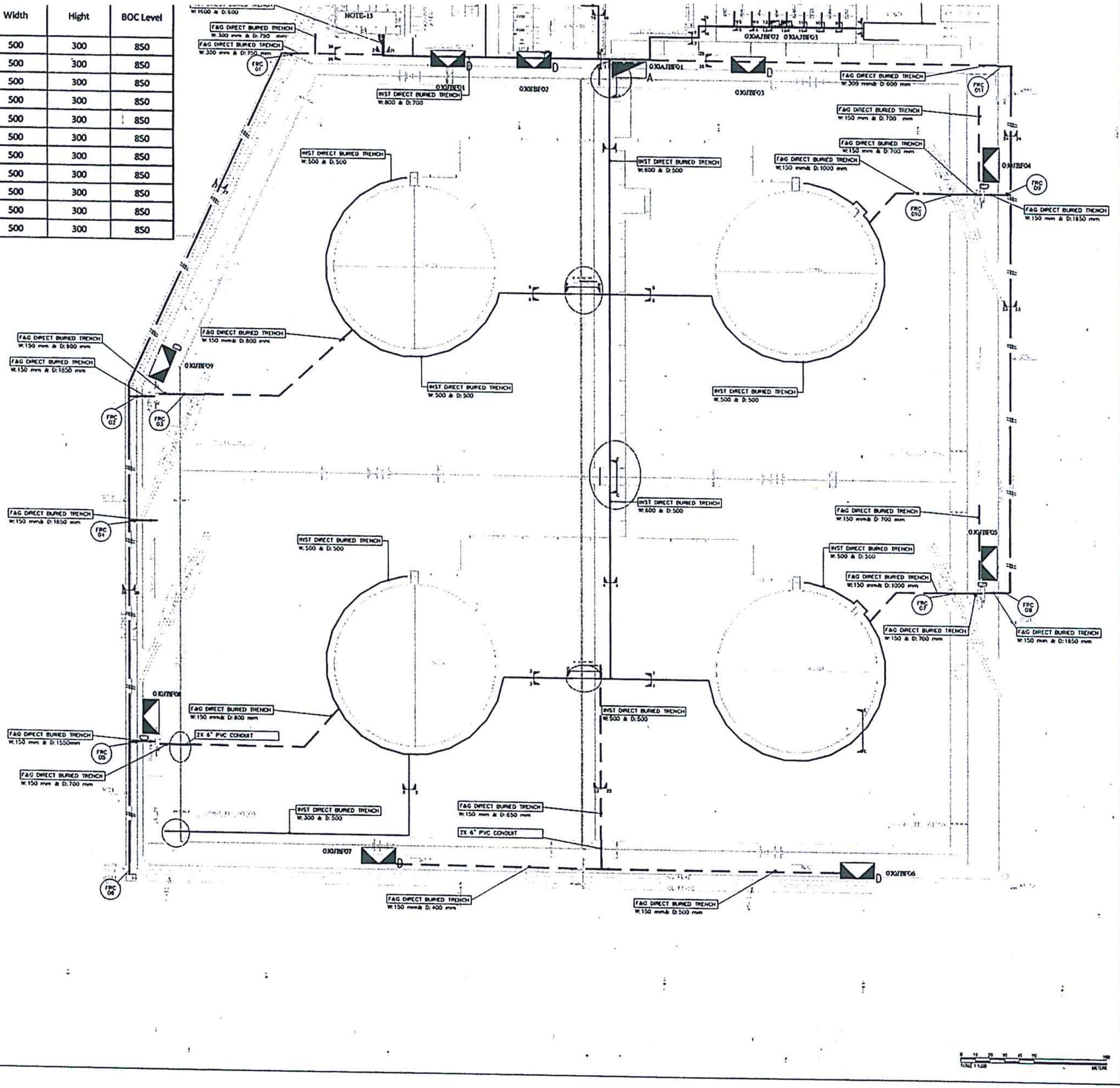
10.06- Instruments Cables Schedule

Project: 01251-100
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.07- Instruments Cables Laying Certificates

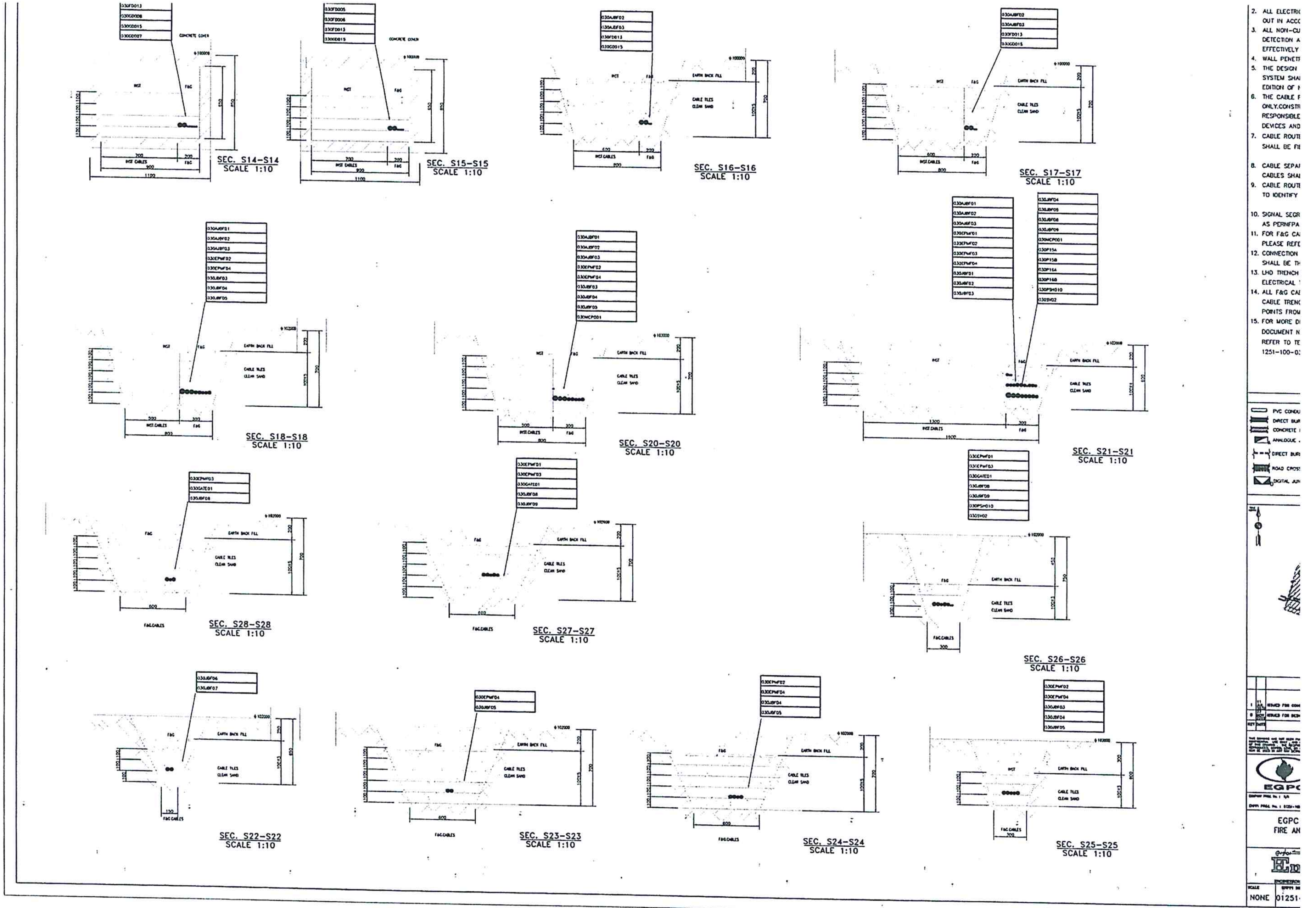
Area No.	REC No.	No. of layers	No. sleeves per layer	Length (m)	Width	Hight	BOC Level
030	FRC 01	1	2	8	500	300	850
	FRC 02	1	2	8	500	300	850
	FRC 03	1	2	23	500	300	850
	FRC 04	1	2	8	500	300	850
	FRC 05	1	2	8	500	300	850
	FRC 06	1	2	10	500	300	850
	FRC 07	1	2	23	500	300	850
	FRC 08	1	2	8	500	300	850
	FRC 09	1	2	8	500	300	850
	FRC 10	1	2	23	500	300	850
	FRC 11	1	2	8	500	300	850

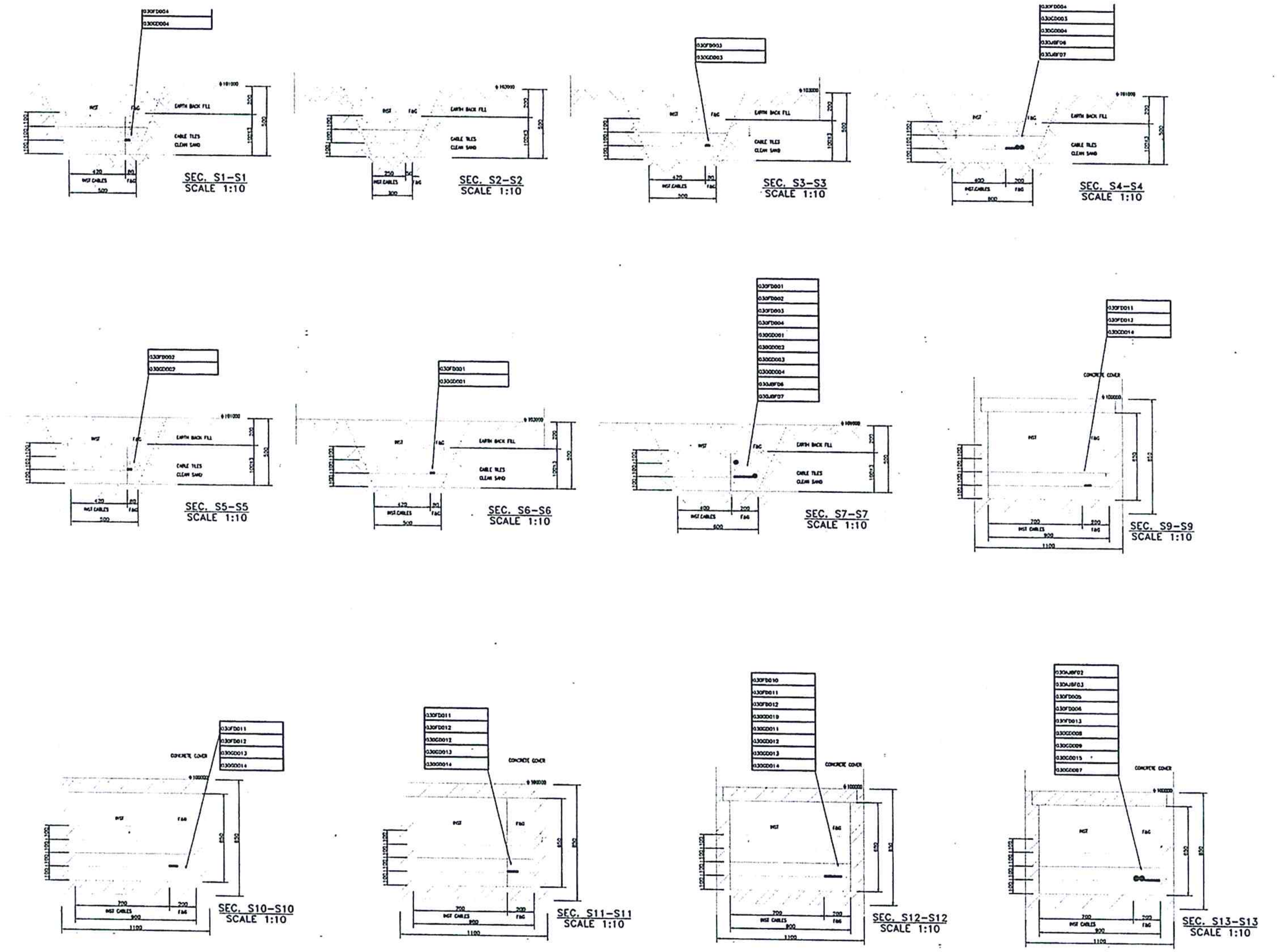


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1:1000 0125


SEC. S14-S14
SCALE 1:10
SEC. S15-S15
SCALE 1:10
SEC. S16-S16
SCALE 1:10
SEC. S17-S17
SCALE 1:10
SEC. S18-S18
SCALE 1:10
SEC. S20-S20
SCALE 1:10
SEC. S21-S21
SCALE 1:10
SEC. S28-S28
SCALE 1:10
SEC. S27-S27
SCALE 1:10
SEC. S26-S26
SCALE 1:10
SEC. S22-S22
SCALE 1:10
SEC. S23-S23
SCALE 1:10
SEC. S24-S24
SCALE 1:10
SEC. S25-S25
SCALE 1:10
EARTH BACK FILL
CABLE TILES
CLEAN SAND
F&G CABLES
EGPC
NONE



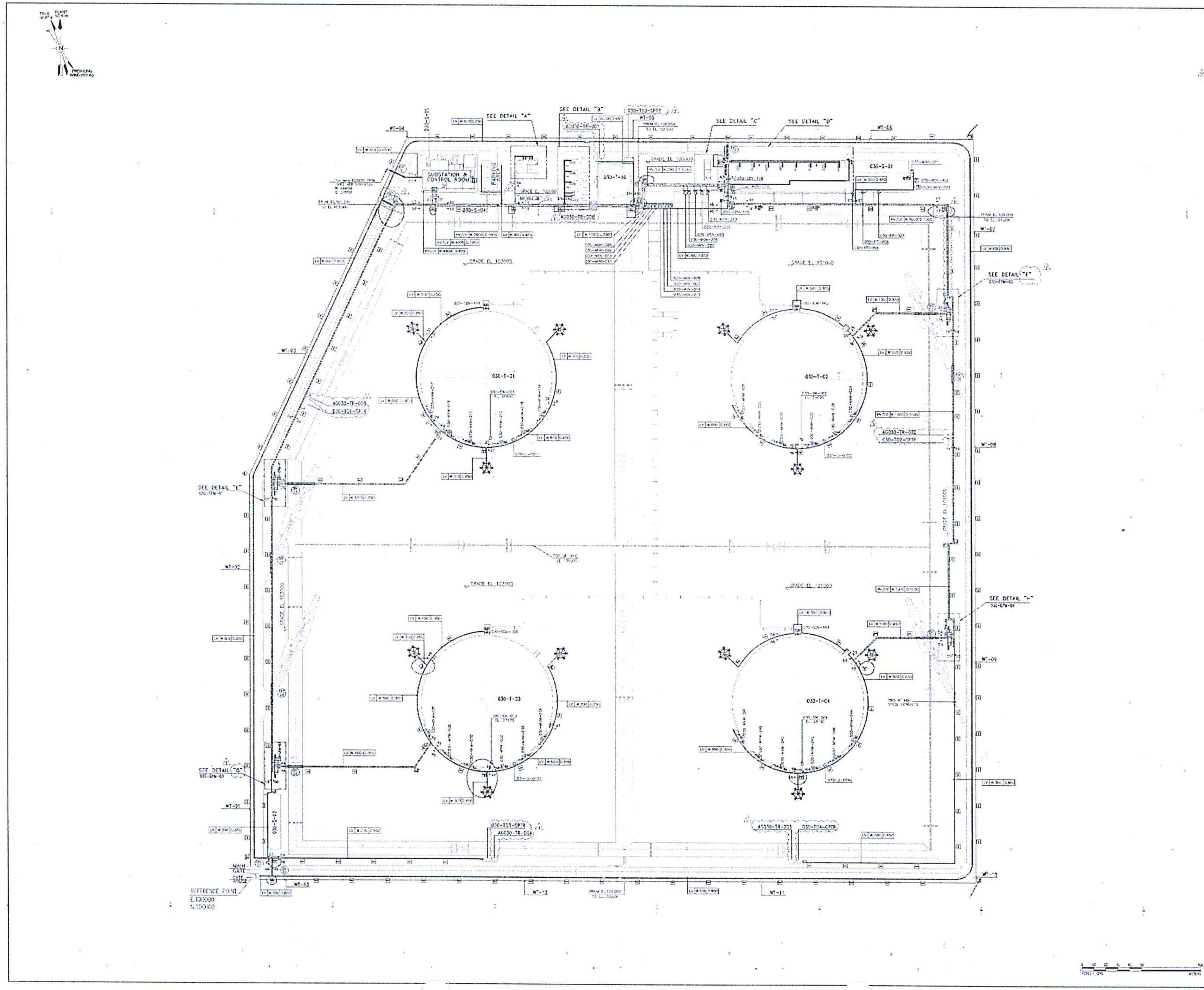
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CONCRETE
ANALOGUE
DIRECT BU
ROAD CROS
DIGITAL JU

EGP

EGP
FIRE A

SCALE
NONE 0125



REFERENCE DRAWINGS AND DOCUMENTS

LEGEND

IDENTIFICATION

CABLE TRENCH TAG IDENTIFICATION

STRAIGHT HORIZONTAL CABLE TRAY TAG IDENTIFICATION

VERTICAL OUTSIDE ELBOWS CABLE TRAY TAG IDENTIFICATION

ROAD CROSSING IDENTIFICATION

NOTES

1.FOR NOTES SEE SHEET 2 OF 2.

KEY PLAN

REV	DESCRIPTION
3	RE-ISSUED FOR CONSTRUCTION
2	ISSUED FOR CONSTRUCTION
1	RE-ISSUED FOR DESIGN
0	ISSUED FOR DESIGN

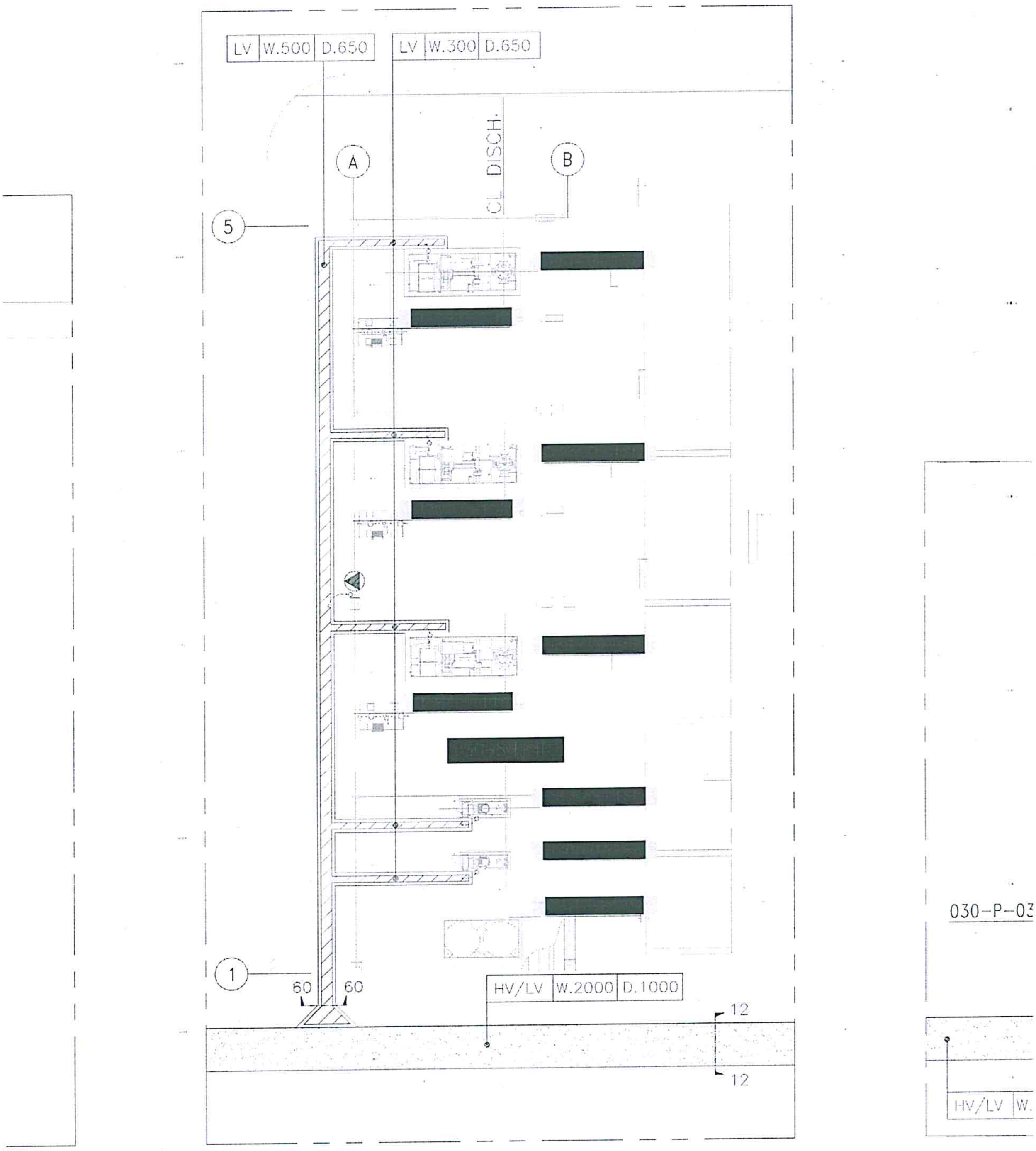
EGPC
THE EGYPTIAN GENERAL PETROLEUM CO.

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR ELECTRICAL CABLE ROUTING LAYO

Enppi إنبي

ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE 1:1000 | 01251-100-030-ECL-001 | SHEET 01/02



SEE DETAIL "B"
SCALE: 1 : 250

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.08- Instruments Cables Termination Certificates

Enppi PETROJET

EGPC CRUDE OIL TANK FARM

EGPC

Owner :	Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor	CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : INSTRUMENT INSTALLATION

NOTIFICATION NO. : PTJ-INS-RFI- 57 DISCIPLINE : E&I

DATE : 5/19/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	INSTRUMENT INSTALLATION	MODULE 1	19-May-21				
1	030-LIT-020	✓					
2	030-LIT-021	✓					
3	030-LIT-022	✓					
4	030-LIT-023	✓					
5	030-PG-030	✓					
6	030-PG-031	✓					
7	030-PG-032	✓					
8	030-PG-034	✓					
9	030-PG-023	✓					
10	030-PG-024	✓					
11	030-PG-025	✓					
12	030-PG-026						
13							
14							
15							
16							
17							
18							

NOTE: 030-PG-026 need to increase the glycerin (Dondsell)

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi PETROJET

EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 &2)

EGPC

INSPECTION AND TEST REPORT FOR

INSTRUMENT INSTALLATION

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI- 57		ITR-IC-0001	INSTRUMENT	

JOB DESCRIPTION		AREA DESCRIPTION
ENGINEERING DOCUMENT NUMBER	SYSTEM NUMBER(IF APPLICABLE)	SUBCONTRACTOR/SUPPLIER

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No physical damage are found	✓		
2	Type / size / location as per drawings and vendor data sheet	✓		
3	Identification / name plate attached correctly	✓		
4	Stanchion type / mounting as per drawings	✓		
5	Welding (if required) and touch up			✓
6	Anchor bolting / Bolt tightening	✓		
7	Grouting (if required)			✓
8	Orientation / direction as per drawings	✓		
9	Accessibility	✓		
10	Assembling compartments properly installed	✓		
11	Earthing and bonding properly installed	✓		
12	Cleanliness	✓		

REMARKS:

REFERENCE DOCUMENTS:

	SUBCONTRACTOR	PETROJET	ENPPI	PMC
NAME				
SIGNATURE		[signature]	[signature] ® Islam Sherif	[signature]
DATE				

Enppi | EGPC CRUDE OIL TANK FARM | EGPC

Owner : Egyptian General Petroleum Corporation (EGPC) — Project No: 01251-100-030 :01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET) — Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : CABLE TERMINATION AND TEST

NOTIFICATION NO. : PTJ-ELE-RFI-169 DISCIPLINE : ELEC

DATE : 10/04/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
35	P3-030-PLC-SC-003	SUBSTATION					
36	P3-030-PLC-SC-004	SUBSTATION					
37	P3-030-TGS-001	SUBSTATION					
38	P3-030-FGS-SC-001	SUBSTATION					
39	C2-030-PM-01A	SUBSTATION					
40	C2-030-PM-01B	SUBSTATION					
41	C2-030-PM-01C	SUBSTATION					
42	C2-030-PM-02	SUBSTATION					
43	C2-030-PM-06A	SUBSTATION					
44	C2-030-PM-06B	SUBSTATION					
45	C2-030-PM-06C	SUBSTATION					
46	C2-030-PM-06D	SUBSTATION					
47	M-030-PM-04A	SUBSTATION					
48	M-030-PM-04B	SUBSTATION					
49	M-030-PM-05A	SUBSTATION					
50	M-030-PM-05B	SUBSTATION					
51	P-030-P-16A	SUBSTATION					
52	P-030-P-16B	SUBSTATION					
53	C-030-EPM1-LVSWG	SUBSTATION					

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

EGPC CRUDE OIL TANK FARM

EGPC

Owner :	Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor	CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : CABLE TERMINATION AND TEST

NOTIFICATION NO. : PTJ-ELE-RFI- 169 DISCIPLINE : ELEC

DATE : 10/04/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
54	P-030-P-15A	SUBSTATION					
55	P-030-P-15B	SUBSTATION					
56	P-030-P-15C	SUBSTATION					
57							
58							
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72							

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

Enppi PETROJET

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE TERMINATION AND SPLICING

SYSTEM NO.:

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
PTJ-ELE-RFI-	10/04/2021	ITR-EL-0009	ELEC	1 OF 1

Item/Tag NO.	For All Cables tages in PTJ-ELE-RFI-				
Type :-		Core:		Size:	

NO.	Description of check	RESUNT		
		ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.	✓		
3	Check cable tag is done correctly.	✓		
4	Test and confirm conductor, phase continuity.	✓		
5	Check insulation resistance test (megger) is completed *'	✓		
6	Check Hi-pot test is completed, only for MV/HV cables *''			✓
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.	✓		
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications			✓
9	Check enclosure cover is installed , no damages and no bolts are missing	✓		
10	Calibration test certificate of testing equipment to be checked.	✓		

Remarks :

*' : ITR-EL-006A/B

*'' :ITR-EL-008

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi | EGPC CRUDE OIL TANK FARM | EGPC

Owner :	Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor	CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : INS INSTALLATION & TERNINATION

NOTIFICATION NO. : PTJ-INST-RFI- 50 DISCIPLINE : F&G

DATE : 4/19/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	INS TERNINATION	Field					
1	030P16A						
2	030P16B						
3	030P15A						
4	030P15B						
5	030P15C						
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE	[signature]	[signature] Sherif	M. omar
DATE			

Enppi | EGPC CRUDE OIL TANK FARM | EGPC

INSPECTION AND TEST REPORT FOR

CABLE TERMINATION AND SPLICING

SYSTEM NO.:

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
PTJ-INST-RFI-		ITR-EL-0009	F&G	1 OF 1

Item/Tag NO.					
Type :-		Core:		Size:	

NO.	Description of check	RESUNT		
		ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.	✓		
3	Check cable tag is done correctly.	✓		
4	Test and confirm conductor, phase continuity.	✓		
5	Check insulation resistance test (megger) is completed *'	✓		
6	Check Hi-pot test is completed, only for MV/HV cables *''			✓
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.	✓		
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications	✓		
9	Check enclosure cover is installed , no damages and no bolts are missing	✓		
10	Calibration test certificate of testing equipment to be checked.	✓		

Remarks :

*' : ITR-EL-006A/B

*'' :ITR-EL-008

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif ® (stamp)	
SIGNATURE	[signature]	[signature]	M. omar
DATE			

Enppi	EGPC CRUDE OIL TANK FARM	EGPC
Owner :	Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor	CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : INS INSTALLATION &TERMINATION

NOTIFICATION NO. : PTJ-INS-RFI- 78 DISCIPLINE : E&I

DATE : 7/6/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	INS INSTALLATION &TERMINATION	MODULE 1	6-Jul-21				
1	030-LIT-030						
2	~~030-PIT-030~~						
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

Enppi

PETROJET

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE TERMINATION AND SPLICING

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	SYSTEM NO.: DISPLINE	SHEET NO
		ITR-EL-0009	ELEC	1 OF 1

Item/Tag NO.					
Type :-		Core:		Size:	

NO.	Description of check	RESUNT ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.	✓		
3	Check cable tag is done correctly.		✓	
4	Test and confirm conductor, phase continuity.	✓		
5	Check insulation resistance test (megger) is completed *'	✓		
6	Check Hi-pot test is completed, only for MV/HV cables *''			✓
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.	✓		
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications	✓		
9	Check enclosure cover is installed , no damages and no bolts are missing	✓		
10	Calibration test certificate of testing equipment to be checked.			✓

Remarks :

	PETROJET	ENPPI	PMC
NAME :		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.09- Instruments Cables Testing Certificates

Enppi

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

SYSTEM NO.:

INSPECTION REPORT NUMBER RFI-177	INSPECTION DATE & TIME	DOUCUMENT No. ITR-EL-0006A	DISPLINE ELECTRICAL	SHEET NO

INSTRUMENT TYPE:	SERIAL:	SERVICE VOLTAGE: 220 v	TEST VOLTAGE: 1kv	AREA / PACKAGE:

NO	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE "M.Ohm"			PHASE TO NUETRAL"M.Ohm"			PHASES & NUETRAL TO ARMOR "M.Ohm"				RESULT	
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass	FAIL
1	030-LIT-030	1*2*1.5	✓	0.2	—	—	—	—	—	—	—	—	—	✓	
2	030-PIT-030	1*2*1.5	✓	0.2	—	—	—	—	—	—	—	—	—	✓	
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															

Remarks :-

Referance :-

	PETROJET	ENPPI	PMC
NAME:		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi — PETROJET

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

INSPECTION REPORT NUMBER: PTJ-INST-RFI-0	INSPECTION DATE & TIME	DOUCUMENT No.: ITR-EL-0006B	DISPLINE: F&G	SYSTEM NO.: / SHEET NO
INSTRUMENT TYPE: FLUKE 1507 INSULATION TESTER	SERIAL: 46240215WS	SERVICE VOLTAGE: 24	TEST VOLTAGE: 500	AREA / PACKAGE:

NO	Item/Tag NO.	CABLE SIZE	Continuity Test	pair conductors	conductors to armor	Shield to Shield	All Conductors-GND	Overall Shield -GND	Armor -GND	RESULT	
										Pass	FAIL
1	030P16A	4X2X1.5	✓	500 ✓							
2	030P16B	4X2X1.5	✓	500 ✓				>500 MΩ		✓	
3	030P15A	8X2X1.5	✓	500 ✓				>500 MΩ		✓	
4	030P15B	8X2X1.5	✓	500 ✓				>500 MΩ		✓	
5	030P15C	8X2X1.5	✓	500 ✓				>500 MΩ		✓	
6								>500 MΩ		✓	
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											

Remarks :-

Referance

	PETROJET	ENPPI	PMC
NAME :		® Islam Sherif	
SIGNATURE	[signature]	[signature]	M. omar
DATE			

Enppi | EGPC CRUDE OIL TANK FARM | EGPC

INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

SYSTEM NO.:

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	DOUCUMENT No.	DISPLINE	SHEET NO
PTJ-ELE-RFI-	10/04/2021	ITR-EL-0006A	ELECTRICAL	

INSTRUMENT TYPE:	SERIAL:	SERVICE VOLTAGE:	TEST VOLTAGE:	AREA / PACKAGE:
HIGH VOLTAGE INSULATION TESTER-SANWA-MG5000	17015900385	400	1000	SUBSTATION

NO	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE			PHASE TO NUETRAL"M.Ohm"			PHASES & NUETRAL TO ARMOR "M.Ohm"				RESULT	
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass	FAIL
17	P1- 030-FGS-SC-001	3x4	✓	O.L										✓	
18	P2- 030-FGS-SC-001	3x4	✓	O.L										✓	
19	P1-030-TGS -001	3x4	✓	O.L										✓	
20	P2-030-TGS-001	3x4	✓	O.L										✓	
21	P3-030-PLC-SC-001	3x4	✓	O.L										✓	
22	P3-030-PLC-SC-002	3x4	✓	O.L										✓	
23	P3-030-PLC-SC-003	3x4	✓	O.L										✓	
24	P3-030-PLC-SC-004	3x4	✓	O.L										✓	
25	P3-030-TGS-001	3x4	✓	O.L										✓	
26	P3-030-FGS-SC-001	3x4	✓	O.L										✓	
27	M-030-PM-04A	3x10	✓	O.L										✓	
28	M-030-PM-04B	3x10	✓	O.L										✓	
29	M-030-PM-05A	3x10	✓	O.L										✓	
30	M-030-PM-05B	3x10	✓	O.L										✓	
31	P-030-P-16A	3.5x70	✓	O.L										✓	
32	P-030-P-16B	3.5x70	✓	O.L										✓	

Remarks :-

Referance :-

PETROJET	ENPPI	PMC

Enppi

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

SYSTEM NO.:

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	DOUCUMENT No.	DISPLINE	SHEET NO
PTJ-ELE-RFI-	10/04/2021	ITR-EL-0006A	ELECTRICAL	

INSTRUMENT TYPE:	SERIAL:	SERVICE VOLTAGE:	TEST VOLTAGE:	AREA / PACKAGE:
HIGH VOLTAGE INSULATION TESTER-SANWA-MG5000	17015900385	400	1000	SUBSTATION

NO	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE			PHASE TO NUETRAL"M.Ohm"			PHASES & NUETRAL TO ARMOR "M.Ohm"				RESULT	
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass	FAIL
33	P-030-P-15A	3x25	✓	ok										✓	
34	P-030-P-15B	3x25	✓	ok										✓	
35	P-030-P-15C	3x25	✓	ok										✓	
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															
46															
47															
48															

Remarks :-

Referance :-

	PETROJET	ENPPI	PMC
	[signature]	[signature]	[signature]

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.10- Instruments Calibration Certificates

PETROJET

The Petroleum Projects & Technical Consultations Co

EGAC Accredited Calibration & Testing 207021

Report No:010

A-1, Calibration Certificate Form for Level Transmitter

Customer Name	:	EGPC	Tag No :	030 - LIT -030
Calibration Place	:	Lab( ) Site (√)	Model No :	266DRHHPSA1B7
Calibration Date	:	7/2/2021	Serial No :	20049951
Calibration Range	:	-16.5 : 593.5 inH2O	Manufacturer :	ABB
Accuracy	:	± 0.075 % F.S	Resolution:	0.001
Lab Temperature	:	23 °C	Humidity :	54%

CALIBRATION RESULTS

Stander Reading (PS)	Instrument Reading (PM)				Error	
	Rising		Falling		Rising	Falling
inH2O	Trans m.A	LCD	Trans m.A	LCD	m.A	m.A
-14.50	4.014	-14.480	4.014	-14.480	0.000	0.000
136.00	8.001	136.000	8.002	136.005	0.001	0.002
288.50	12.003	288.502	12.004	288.506	0.003	0.004
441.00	16.005	441.007	16.006	441.011	0.005	0.006
593.50	20.005	593.509	20.005	593.509	0.005	0.005
Accuracy	0.038 % F.S		Accepted (OK)		Not Accepted ( )	

Uncertainty Of Measurement at C.L. 95 % (K=2) 1.48 bar

Stander Equipment

Model No.	Manufacturer	Serial No.	Calibration Date	Uncertainty
317 A	ConaST	316A12010035	30/06/2020	------

Specification Used :

The traceability of measurement result to the SI units is Assured by the National Stander (OIML R101 &109 /1993)

Maintained at DKD with Certificate No . Petrojet / 0038 / 2020

This certificate refers only to the particular item under test calibration

This certificate shall not be reproduced in full, unless written permission has been obtained from head of the department

	Calibrated By	Petrojet By	Reviewed By	
			Reviewed By Enppi	Reviewed By PMC
Name	Mr . Nazeeh Zohir	Eng. Mohamed Aziz		
Signature	[signature]	[signature]	Eng. [signature]	Eng. M Hamdy
Date	7/2/2021	7/2/2021	7/2/2021	

PETROJET

The Petroleum Projects & Technical Consultations Co

Calibration & Testing

EGAC Accredited 207021

Report No:005

A-1, Calibration Certificate Form for Dial Pressure Gauge

Customer Name	:	EGPC	Tag No	:	031 - PG - 030
Calibration Place	:	Lab( ) Site (√)	Model No	:	233.30
Calibration Date	:	23/12/2020	Serial No	:	89721C90
Calibration Range	:	0 : 16 bar	Manufacturer	:	WIKA
Accuracy	:	1 % F.S	Resolution	:	0.5 bar
Lab Temperature	:	22 °C	Humidity	:	55%

CALIBRATION RESULTS

Instrument Reading (Pm)	Standard Reading (PS)		Error ΔP= Pm-Ps	
(BAR)	Rising(BAR)	Falling(PAR)	Rising (PAR)	Falling (PAR)
0.00	0.000	0.000	0.000	0.000
5.00	4.980	5.000	0.020	0.000
10.00	9.980	9.999	0.020	0.001
15.00	14.995	14.997	0.005	0.003
16.00	15.993	15.993	0.007	0.007
Accuracy 0.12 % F.S		Accepted (OK)	Not Accepted ( )	

Uncertainty Of Measurement at C.L. 95 % (K=2) 1.48 bar

Stander Equipment

Model No.	Manufacturer	Serial No.	Calibration Date	Uncertainty
317 A	ConaST	316A12010035	30/01/2020	------
ADT160-GP500-BAR-N	ADDITEL	005140A0001	30/01/2020	7 mbar

Specification Used :

The traceability of measurement result to the SI units is Assured by the National Stander (OIML R101 &109 /1993)

Maintained at DKD with Certificate No 2422/13/2019

This certificate refers only to the particular item under test calibration

This certificate shall not be reproduced in full, unless written permission has been obtained from head of the department

	Calibrated By	Petrojet By	Reviewed By Enppi	Reviewed By PMC
Name	Mr . Nazeeh Zohir	Eng. Mohamed abdelrahman	Eng. Isuh Sharf	Eng.
Signature	[signature]	[signature]	[signature]	[signature]
Date	23/12/2020	23/12/2020	23/12/2020	

Report No:003

A-1, Calibration Certificate Form for Dial Pressure Gauge

Customer Name	:	EGPC	Tag No	:	031 - PG - 031
Calibration Place	:	Lab( ) Site (√)	Model No	:	233.30
Calibration Date	:	23/12/2020	Serial No	:	89721CGP
Calibration Range	:	0 : 16 bar	Manufacturer	:	WIKA
Accuracy	:	1 % F.S	Resolution	:	0.5 bar
Lab Temperature	:	22 °C	Humidity	:	55%

CALIBRATION RESULTS

Instrument Reading (Pm)	Standard Reading (PS)		Error ΔP= Pm-Ps	
(BAR)	Rising(BAR)	Falling(PAR)	Rising (PAR)	Falling (PAR)
0.00	0.000	0.000	0.000	0.000
5.00	5.002	5.005	-0.002	-0.005
10.00	10.005	10.008	-0.005	-0.008
15.00	15.008	15.001	-0.008	-0.001
16.00	16.010	16.010	-0.010	-0.010
Accuracy 0.06 % F.S		Accepted (OK)	Not Accepted ( )	

Uncertainty Of Measurement at C.L. 95 % (K=2) 1.48 bar

Stander Equipment

Model No.	Manufacturer	Serial No.	Calibration Date	Uncertainty
317 A	ConaST	316A12010035	30/01/2020	------
ADT160-GP500-BAR-N	ADDITEL	005140A0001	30/01/2020	7 mbar

Specification Used :

The traceability of measurement result to the SI units is Assured by the National Stander (OIML R101 &109 /1993)

Maintained at DKD with Certificate No 2422/13/2019

This certificate refers only to the particular item under test calibration

This certificate shall not be reproduced in full, unless written permission has been obtained from head of the department

	Calibrated By	Petrojet By	Reviewed By Enppi	Reviewed By PMC
Name	Mr. Nazeeh Zohir	Eng. Mohamed abdelrahman	Eng. Isuu sherif	Eng.
Signature				
Date	23/12/2020	23/12/2020	23/12/2020	

PETROJET

The Petroleum Projects & Technical Consultations Co

Calibration & Testing 207021

EGAC Accredited

Report No:004

A-1, Calibration Certificate Form for Dial Pressure Gauge

Customer Name	:	EGPC	Tag No	:	031 - PG - 032
Calibration Place	:	Lab( ) Site (√)	Model No	:	233.30
Calibration Date	:	23/12/2020	Serial No	:	89721ANG
Calibration Range	:	0 : 16 bar	Manufacturer	:	WIKA
Accuracy	:	1 % F.S	Resolution	:	0.5 bar
Lab Temperature	:	22 °C	Humidity	:	55%

CALIBRATION RESULTS

Instrument Reading (Pm)	Standard Reading (PS)		Error ΔP= Pm-Ps	
(BAR)	Rising(BAR)	Falling(PAR)	Rising (PAR)	Falling (PAR)
0.00	0.000	0.000	0.000	0.000
5.00	5.003	5.004	-0.003	-0.004
10.00	10.004	10.004	-0.004	-0.004
15.00	15.004	15.005	-0.004	-0.005
16.00	16.005	16.005	-0.005	-0.005
Accuracy 0.03 % F.S		Accepted (OK)	Not Accepted ( )	

Uncertainty Of Measurement at C.L. 95 % (K=2) 1.48 bar

Stander Equipment

Model No.	Manufacturer	Serial No.	Calibration Date	Uncertainty
317 A	ConaST	316A12010035	30/01/2020	------
ADT160-GP500-BAR-N	ADDITEL	005140A0001	30/01/2020	7 mbar

Specification Used :

The traceability of measurement result to the SI units is Assured by the National Stander (OIML R101 &109 /1993)

Maintained at DKD with Certificate No 2422/13/2019

This certificate refers only to the particular item under test calibration

This certificate shall not be reproduced in full, unless written permission has been obtained from head of the department

	Calibrated By	Petrojet By	Reviewed By Enppi	Reviewed By PMC
Name	Mr. Nazeeh Zohir	Eng. Mohamed abdelrahman	Eng. Kyu Sherif	Eng.
Signature	[signature]	[signature]	[signature]	[signature]
Date	23/12/2020	23/12/2020	23/12/2020	

PETROJET

The Petroleum Projects & Technical Consultations Co

UKAS QUALITY MANAGEMENT 001 — OHSAS 18001 SGS — ISO 14001:2004 SGS

المجلس الوطني للاعتماد EGAC Accredited

Calibration & Testing 207021

Report No:002

A-1, Calibration Certificate Form for Dial Pressure Gauge

Customer Name	:	EGPC	Tag No	:	031 - PG - 034
Calibration Place	:	Lab( ) Site (√)	Model No	:	233.30
Calibration Date	:	23/12/2020	Serial No	:	897219UJ
Calibration Range	:	0 : 16 bar	Manufacturer	:	WIKA
Accuracy	:	1 % F.S	Resolution	:	0.5 bar
Lab Temperature	:	22 °C	Humidity	:	55%

CALIBRATION RESULTS

Instrument Reading (Pm)	Standard Reading (PS)		Error ΔP= Pm-Ps	
(BAR)	Rising(BAR)	Falling(PAR)	Rising (PAR)	Falling (PAR)
0.00	0.000	0.000	0.000	0.000
5.00	5.001	5.003	-0.001	-0.003
10.00	10.001	10.003	-0.001	-0.003
15.00	15.004	15.006	-0.004	-0.006
16.00	16.007	16.007	-0.007	-0.007
Accuracy 0.04 % F.S		Accepted (OK)	Not Accepted ( )	

Uncertainty Of Measurement at C.L. 95 % (K=2) 1.48 bar

Stander Equipment

Model No.	Manufacturer	Serial No.	Calibration Date	Uncertainty
317 A	ConaST	316A12010035	30/01/2020	------
ADT160-GP500-BAR-N	ADDITEL	005140A0001	30/01/2020	7 mbar

Specification Used :

The traceability of measurement result to the SI units is Assured by the National Stander (OIML R101 &109 /1993)

Maintained at DKD with Certificate No 2422/13/2019

This certificate refers only to the particular item under test calibration

This certificate shall not be reproduced in full, unless written permission has been obtained from head of the department

	Calibrated By	Petrojet By	Reviewed By Enppi	Reviewed By PMC
Name	Mr. Nazeeh Zohir	Eng. Mohamed abdelrahman	Eng. Isuu sherif	Eng.
Signature	[signature]	[signature]	[signature]	M Hamdy
Date	23/12/2020	23/12/2020	23/12/2020	

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.11- Instrument Loop Checks Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.12- Instrumentation Pre-Commissioning Check Lists

Enppi

PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-030	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	**DESCRIPTION**	**RESULT**	**PL**
		OK/NA/PL	**ITEM No.**
1	Instrument supplied as per PO / data sheet.	✓	
2	Instrument Undamaged.	✓	
3	Instrument range / Scale & engineering units is as per data sheet.	✓	
4	Instrument process connection as per data sheet.	✓	
5	Pressure Gauge and Temperature indicator is of correct dial diameter.	✓	
6	Instrument complete with manifold.	N-A	
7	Instrument calibration (refer to the calibration sheet/certificate)	✓	
8	Slope of impulse lines is correct & continuous.	N-A	
9	Instruments and tubing correctly installed and supported rigidly as per project drawings.	N-A	
10	Tubing shall be as per Project specification, Hookup drawing and standards	N-A	
11	Sufficient clearance is provided for insertion or withdrawal of the pressure gauge and temperature indicator.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**CONST. CONTRACTOR**	**ENPPI**	**CUSTOMER**
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omar

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-030	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Pressure Gauge and Temperature indicator orientation is correct for operations and accessible for maintenance.	✓	
13	Pressure Gauge and Temperature indicator to be protected from Extremes Temp.	✓	
14	Process connections not leaking.	✓	
15	Nameplates and Tagging correct as per Project Drawings	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature] M. Omar

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PRE-COMMISSIONING CHECK LIST
PRESSURE-FLOW-LEVEL-TEMPERATURE TRANSMITTER
IC-05 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-LIT-030	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Instrument supplied as per PO / data sheet.	✓	
2	Instrument undamaged.	✓	
3	Instrument range is as per data sheet.	✓	
4	Instrument process connection as per data sheet.	✓	
5	Instrument cable entry details (size& type) as per data sheet.	✓	
6	Instrument complete with manifold.	✓	
7	Instrument calibration (refer to the calibration sheet/certificate).	✓	
8	Refer to loop check sheet for transmitter loop check.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omar [signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
INSTRUMENT CABLES BELOW GROUND (DIRECT BURIED)
IC-22 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: IC-030LIT030	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Trench dimension (depth, width) as per project approved drawing	✓	
2	Cable specification is suitable for direct buried.	✓	
3	Cable number, type and size as per cross section & approved drawing	✓	
4	Cable bending radius within acceptable limits	✓	
5	Ducts / road crossing size & clean and as per project approved drawing	✓	
6	The segregation between electrical/power and instrument cables as per project specification	✓	
7	The segregation between IS and non IS cables as per project specification	N.A	No IS Cables Near
8	Cable markers fitted along length. As per Specifications.	✓	
9	Cable undamaged &Cable markers fitted at the inlet & outlet of the Ducts / road crossing	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omer

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-031	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Instrument supplied as per PO / data sheet.	✓	
2	Instrument Undamaged.	✓	
3	Instrument range / Scale & engineering units is as per data sheet.	✓	
4	Instrument process connection as per data sheet.	✓	
5	Pressure Gauge and Temperature indicator is of correct dial diameter.	✓	
6	Instrument complete with manifold.	N.A	
7	Instrument calibration (refer to the calibration sheet/certificate)	✓	
8	Slope of impulse lines is correct & continuous.	NA	
9	Instruments and tubing correctly installed and supported rigidly as per project drawings.	N.A	
10	Tubing shall be as per Project specification, Hookup drawing and standards	N.A	
11	Sufficient clearance is provided for insertion or withdrawal of the pressure gauge and temperature indicator.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omar

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-031	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Pressure Gauge and Temperature indicator orientation is correct for operations and accessible for maintenance.	✓	
13	Pressure Gauge and Temperature indicator to be protected from Extremes Temp.	✓	
14	Process connections not leaking.	✓	
15	Nameplates and Tagging correct as per Project Drawings	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omar

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-032	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	**DESCRIPTION**	**RESULT**	**PL**
		OK/NA/PL	**ITEM No.**
1	Instrument supplied as per PO / data sheet.	✓	
2	Instrument Undamaged.	✓	
3	Instrument range / Scale & engineering units is as per data sheet.	✓	
4	Instrument process connection as per data sheet.	✓	
5	Pressure Gauge and Temperature indicator is of correct dial diameter.	✓	
6	Instrument complete with manifold.	NA	
7	Instrument calibration (refer to the calibration sheet/certificate)	✓	
8	Slope of impulse lines is correct & continuous.	NA	
9	Instruments and tubing correctly installed and supported rigidly as per project drawings.	N.A	
10	Tubing shall be as per Project specification, Hookup drawing and standards	N.A	
11	Sufficient clearance is provided for insertion or withdrawal of the pressure gauge and temperature indicator.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**CONST. CONTRACTOR**	**ENPPI**	**CUSTOMER**
NAME		® Islam Sherif	M. Omar
SIGNATURE	[signature]	[signature]	[signature]

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-032	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Pressure Gauge and Temperature indicator orientation is correct for operations and accessible for maintenance.	✓	
13	Pressure Gauge and Temperature indicator to be protected from Extremes Temp.	✓	
14	Process connections not leaking.	✓	
15	Nameplates and Tagging correct as per Project Drawings	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omar

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-034	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Instrument supplied as per PO / data sheet.	✓	
2	Instrument Undamaged.	✓	
3	Instrument range / Scale & engineering units is as per data sheet.	✓	
4	Instrument process connection as per data sheet.	✓	
5	Pressure Gauge and Temperature indicator is of correct dial diameter.	✓	
6	Instrument complete with manifold.	NA	
7	Instrument calibration (refer to the calibration sheet/certificate)	✓	
8	Slope of impulse lines is correct & continuous.	N.A	
9	Instruments and tubing correctly installed and supported rigidly as per project drawings.	N.A	
10	Tubing shall be as per Project specification, Hookup drawing and standards	NA	
11	Sufficient clearance is provided for insertion or withdrawal of the pressure gauge and temperature indicator.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	M. Omar
SIGNATURE	[signature]	[signature]	[signature]

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-034	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Pressure Gauge and Temperature indicator orientation is correct for operations and accessible for maintenance.	✓	
13	Pressure Gauge and Temperature indicator to be protected from Extremes Temp.	✓	
14	Process connections not leaking.	✓	
15	Nameplates and Tagging correct as per Project Drawings	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME	[signature]	Islam Sherif [stamp]	M. omer
SIGNATURE		[signature]	

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-033	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Instrument supplied as per PO / data sheet.	✓	
2	Instrument Undamaged.	✓	
3	Instrument range / Scale & engineering units is as per data sheet.	✓	
4	Instrument process connection as per data sheet.	✓	
5	Pressure Gauge and Temperature indicator is of correct dial diameter.	✓	
6	Instrument complete with manifold.	NA	
7	Instrument calibration (refer to the calibration sheet/certificate)	✓	
8	Slope of impulse lines is correct & continuous.	N.A	
9	Instruments and tubing correctly installed and supported rigidly as per project drawings.	N.A	
10	Tubing shall be as per Project specification, Hookup drawing and standards	N.A	
11	Sufficient clearance is provided for insertion or withdrawal of the pressure gauge and temperature indicator.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST:

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	M. Omar

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PRE-COMMISSIONING CHECK LIST
LOCAL PRESSURE GAUGE _DP AND TEMP
IC-09 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	:	**DISCIPLNE**	: Instrument
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-PG-033	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Pressure Gauge and Temperature indicator orientation is correct for operations and accessible for maintenance.	✓	
13	Pressure Gauge and Temperature indicator to be protected from Extremes Temp.	✓	
14	Process connections not leaking.	✓	
15	Nameplates and Tagging correct as per Project Drawings	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	M. omar
SIGNATURE	[signature]	[signature]	[signature]

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

10.13- Instrumentation Supplier Check Lists & Reports

11- Instrumentation Commissioning

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

11.01) Instrumentation Function Test Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

11.02- Instrumentation Supplier Check Lists & Reports

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12- Electrical Pre-Commissioning

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.01- System Electrical Index

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.02- Electrical Drawings

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.03- Motor Datasheets

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.04- Electrical Cables Schedule

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.05- Electrical Cables Laying Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.06- Electrical Cables Testing Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.07- Electrical Cables Termination Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.08- FAT Reports & Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.08- FAT Reports & Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.09- SAT Reports & Certificates

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.10- Electrical Pre-Commissioning Check Lists

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15A	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	Ⓡ Islam Sherif [signature]	[signature]
DATE			

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE : EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 30 (MODULE 01)	
PROJECT NUMBER : 1251-100	**DISCIPLINE** : Electrical
SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SYSTEM ID** : 030-LP-010
SUB-SYSTEM NAME : Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID** : 030-LP-010
ITEM TAG No. : P-030-P-15A	**AREA** : 30
REF. DWGs/DOCs :	

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
18	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15B	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	Ⓡ Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 30 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
18	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15C	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 30 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
18	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-16A	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 30 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
18	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

PRE-COMMISSIONING CHECK LIST MEDIUM VOLTAGE CABLES EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-16B	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 30 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
18	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15C	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 31 (MODULE 02)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
19	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16A	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 31 (MODULE 02)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
19	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 31 (MODULE 02)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
19	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

Enppi

PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 030 (MODULE 01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	:
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT , AGROOD AREA 31 (MODULE 02)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Loss Prevention
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: 030-P-15B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
19	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
FIRE AND GAS CABLES
LP-11 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

NOTES:

- Manufacture's test voltage & minimum values for insulation resistance should be referenced.

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	**DESCRIPTION**	**RESULT**	**PL**
		OK/NA/PL	**ITEM No.**
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	**CONST. CONTRACTOR**	**ENPPI**	**CUSTOMER**
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-16A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-16B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	[signature]	® Islam Sherif [signature]	[signature]
DATE			

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif ®	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15A	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15B	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N.A	
18	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	[signature]	[signature]	[signature]
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SYSTEM ID**	: 030-LP-010
SUB-SYSTEM NAME	: Firefighting Pumps & Fire Water Network	**SUB-SYSTEM ID**	: 030-LP-010
ITEM TAG No.	: P-030-P-15C	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	[signature]	[signature]	
DATE			

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

12.11- Electrical Supplier Check Lists & Reports

13- Electrical Commissioning

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

13.01- Electrical -Commissioning Check Lists

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COMMISSIONING CHECK LIST
MOTORS
EL-22 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Electrical
REF. DWGs/DOCs	: 030-PM-16A

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Ensure pre-commissioning check list is completed.	oK	
2	Calibration test certificate of testing equipment to be checked.	NA	
3	Running test of two hours and maintain constant check of bearing and housing temp. to detect abnormal temprature raise or vibration.	oK	
4	Measure the terminals voltage and line current of the free running motors.	oK	
5	Test report including test results.	oK	
6	Check functional operation of space heater (If Any).	NA	
7	Unused cable entries to be plugged correctly.	oK	
8	Check functional operation of control circuits and protection devices (protection setting to be checked).	NA	
9	Check cable glands (sizes, tightness....etc)	oK	
10	Motor leads are properly terminated & insulated.	oK	
11	Check motor direction of rotation.	oK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME		[signature]	M. omar
SIGNATURE	[signature]		
DATE			

10000-000-EK8-TMP-0111 (07/14)

COMMISSIONING CHECK LIST
MOTORS
EL-22 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 **DISCIPLINE** : Electrical
REF. DWGs/DOCs	: 030-PM-16A

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Measure & record motor starting current & normal current.	ok	
13	Cable markers to be checked w.r.t cable list.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME		for / [illegible]	M. omar
SIGNATURE	[signature]		
DATE			

Enppi

COMMISSIONING CHECK LIST
MOTORS
EL-22 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 **DISCIPLINE** : Electrical
REF. DWGs/DOCs	: 030-PM-16B

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Ensure pre-commissioning check list is completed.	oK	
2	Calibration test certificate of testing equipment to be checked.	NA	
3	Running test of two hours and maintain constant check of bearing and housing temp. to detect abnormal temprature raise or vibration.	oK	
4	Measure the terminals voltage and line current of the free running motors.	oK	
5	Test report including test results.	oK	
6	Check functional operation of space heater (If Any).	NA	
7	Unused cable entries to be plugged correctly.	oK	
8	Check functional operation of control circuits and protection devices (protection setting to be checked).	NA	
9	Check cable glands (sizes, tightness….etc)	oK	
10	Motor leads are properly terminated & insulated.	oK	
11	Check motor direction of rotation.	oK	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME	[signature]	[signature]	M. Omar
SIGNATURE			
DATE			

Enppi

COMMISSIONING CHECK LIST
MOTORS
EL-22 B

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT, AGROOD (AREA 30)
PROJECT NUMBER	: 1251-100
COMMODITY DESCRIPTION	: Firefighting Pumps & Fire Water Network
COMMODITY ID	: 030-LP-010 — **DISCIPLINE** : Electrical
REF. DWGs/DOCs	: 030-PM-16B

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Measure & record motor starting current & normal current.	ok	
13	Cable markers to be checked w.r.t cable list.	ok	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	PETROJET	ENPPI	PPC
NAME		for/Shafr	
SIGNATURE	[signature]		M. Omar
DATE			

10000-000-EK8-TMP-0111 (07/14)

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

13.02- Electrical Supplier Check Lists & Reports

14- Red Marked-up Drawings

System ID	030-LP-010
System Description	Firefighting Pumps & Fire Water Network

14.01- P&ID

14.02- Instrumentation Drawings

14.03- Electrical Drawings